

SW-Tools ODBC - Programmers Reference

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# 1. Preface

SW-Tools ODBC driver for Navision financials is compliant to ODBC 2.10, API-Level 1, SQL core level.

Most of the extended SQL instruction set is implemented as shown below.

The driver is delivered in 32 bit version only.

# 2. Installation

The driver is installed using the SETUP program on the CD.

By use of the ODBC Administrator setup function you can define multiple data sources to be used with the driver.

# 3. Principle of operation

The SW-Tools ODBC driver uses the TRIO Data Dictionary to access files using SQL on any implemented file system based on the Navision Financials Database.

The table, index and field definitions may automatically be imported from the Navision Financials Database into the SW-Tools Data Dictionary.

This opens access to a lot of Windows products as ACCESS, EXCEL, WORD etc.

This short example collection is intended for programmmers reference merely as user handbook - the end user should focus on the application programs only.

# 4. ODBC.INI parameters

The following is a complete list of possible entries in ODBC.INI

Me= Default path the drivers files

Basis= Path for BASIS.SSV defining the file system interfaces

Dmf= Path for the datadictionary FILES.SSV and xx.SSD

Isa= Default path for the database files if needed

Com= Company number

Based= Normally blank, forces all files to a given BASIS filetype

Fixfil= 0 Forces the driver to read FILES.SSV whenever accessed

Upper= 0 Use upper/lowercase names instead of just uppercase

Fname= 0 Use File ID only as SQL tablenames

Fnamelen= n Use max n characters in tablename length

Ftext 0 Usage of file text desctiption

Qualifier= 0 Return NULL instead of file ID as table qualifier

Owner= 0 Return NULL instead of filetype as table owner

Lan= ENG The language is fixed on the disk

Test= 1 Internal testflags producing a c:\wif testoutput

Update= 1 Data source is not readonly, requires full release

# 5. Functions

The following is a list of implemented functions, refer first to the ODBC manual SQL functions then to the SW-Tools TRIO calculations and subfunctions manual.

ABS, ACOS, ASCII, ASIN, ATAN, ATAN2, CEILING, CHAR, CONCAT, CONV, COS, COT, CURDATE, CURTIME, DATABASE, DATE, DAY, DAYNAME, DAYOFMONTH, DAYOFWEEK, DAYOFYEAR, DEGREES, EDIT, EXP, FIND, FLOOR, FNA, FNB, FND, FNE, FNF, FNH, FNO, FNR, FNU, FNV, FNY, FRA, HOUR, IN, INSERT, INT, ISNULL, LCASE, LEFT, LEN, LENGTH, LIKE, LOCATE, LOG, LOG10, LOWER, LTRIM, MATCHES, MINUTE, MOD, MONTH, MONTHNAME, NAME, NOT, NOW, NUMBER, NUMS, PI, POW, POWER, QUARTER, RADIANS, RAND, REPEAT, REPLACE, RIGTH, ROUND, RTRIM, RUN, RUND, SECOND, SGN, SIGN, SIN, SMAA, SOGE, SPACE, SPOFF, SQR, SQRT, SUBSTRING, TAN, TIME, TOCHAR, TODBL, TOLONG, TOSHORT, TRUNCATE, UCASE, UPPER, USER, VALCH, VALID, WDAY, WEEK, YEAR

# 6. Examples of varius use of SQL in the SW-Tools ODBC driver

Simple SQL statements examples with access of one table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | CM | CM |  | 0 | Current month |
| 2 | COD | 0D |  | 0 | Cash on delivery |
| 3 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | 14DAYS | 14D |  | 0 | Net 14 days |
| 5 | 21DAYS | 21D |  | 0 | Net 21 days |
| 6 | 7DAYS | 7D |  | 0 | Net 7 days |

1. Simple SELECT

SELECT \*

FROM 'Payment Terms'

ORDER BY may reference any column, field and DESC/ASC may be used.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Name** | **Search Name** |
| 1 | 44127904 | WoodMart Supply Co. | WOODMART SUPPLY CO. |
| 2 | 46635241 | Viksjö Snickerifabrik AB | VIKSJÖ SNICKERIFABRIK AB |
| 3 | 32665544 | VELUX | VELUX |
| 4 | 49454647 | VAG - Jürgensen | VAG - JÜRGENSEN |
| 5 | 42125678 | UP Ostrov s.p. | UP OSTROV S.P. |
| 6 | 34280789 | Transporte Roas | TRANSPORTE ROAS |
| 7 | 44729910 | Tool Mart | TOOL MART |
| 8 | 42784512 | TON s.r.o. | TON S.R.O. |
| 9 | 43258545 | Sägewerk Mittersill | SÄGEWERK MITTERSILL |
| 10 | 46895623 | Svensk Möbeltextil AB | SVENSK MÖBELTEXTIL AB |
| 11 | 34151086 | Subacqua | SUBACQUA |
| 12 | 47562214 | Stilmøbler as | STILMØBLER AS |
| 13 | 50000 | Service Electronics Ltd. | SERVICE ELECTRONICS LTD. |
| 14 | 41568934 | Schreinerei Peter | SCHREINEREI PETER |
| 15 | 45868686 | Schmeichel Møbler A/S | SCHMEICHEL MØBLER A/S |
| 16 | 01254796 | Progressive Home Furnishings | PROGRESSIVE HOME FURNISHINGS |
| 17 | 43589632 | Paul Brettschneider KG | PAUL BRETTSCHNEIDER KG |
| 18 | 32554455 | PURE-LOOK | PURE-LOOK |
| 19 | 38654478 | POIIORLES d.d. | POIIORLES D.D. |
| 20 | 47521478 | Møbelhuset AS | MØBELHUSET AS |
| 21 | 44127914 | Mortimor Car Company | MORTIMOR CAR COMPANY |
| 22 | 41483124 | Matter Transporte | MATTER TRANSPORTE |
| 23 | 42895623 | Mach & spol. v.o.s. | MACH & SPOL. V.O.S. |
| 24 | 38521479 | MASIVA d.o.o. | MASIVA D.O.O. |
| 25 | 10000 | London Postmaster | LONDON POSTMASTER |
| 26 | 40000 | Lewis Home Furniture | LEWIS HOME FURNITURE |
| 27 | 31568974 | Koekamp Leerindustrie | KOEKAMP LEERINDUSTRIE |
| 28 | 46558855 | Kinnareds Träindustri AB | KINNAREDS TRÄINDUSTRI AB |
| 29 | 49494949 | KKA Büromaschinen Gmbh | KKA BÜROMASCHINEN GMBH |
| 30 | 49989898 | JB-Spedition | JB-SPEDITION |
| 31 | 34110257 | Importaciones S.A. | IMPORTACIONES S.A. |
| 32 | 38458653 | IVERKA POHISTVO d.o.o. | IVERKA POHISTVO D.O.O. |
| 33 | 35225588 | Husplast HF | HUSPLAST HF |
| 34 | 35741852 | Huslagnir | HUSLAGNIR |
| 35 | 35336699 | Hurdir HF | HURDIR HF |
| 36 | 31147896 | Houtindustrie Bruynsma | HOUTINDUSTRIE BRUYNSMA |
| 37 | 47586622 | Furumøbler A/S | FURUMØBLER A/S |
| 38 | 44756404 | Furniture Industries | FURNITURE INDUSTRIES |
| 39 | 45774477 | Fredborg Lamper A/S | FREDBORG LAMPER A/S |
| 40 | 41124089 | Flückiger AG | FLÜCKIGER AG |
| 41 | 45858585 | Elvstrøm Træindustri A/S | ELVSTRØM TRÆINDUSTRI A/S |
| 42 | 01587796 | Custom Metals Incorporated | CUSTOM METALS INCORPORATED |
| 43 | 30000 | CoolWood Technologies | COOLWOOD TECHNOLOGIES |
| 44 | 43698547 | Beschläge Schacherhuber | BESCHLÄGE SCHACHERHUBER |
| 45 | 31580305 | Beekhuysen BV | BEEKHUYSEN BV |
| 46 | 32456123 | BATIMETAL | BATIMETAL |
| 47 | 01963656 | American Wood Exports | AMERICAN WOOD EXPORTS |
| 48 | 20000 | AR Day Property Management | AR DAY PROPERTY MANAGEMENT |

2. Using ORDER BY

SELECT No\_, Name, 'Search Name'

FROM Vendor

ORDER BY 2 DESC, 'Search Name'

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |

3. Simple WHERE clause

SELECT \*

FROM 'Payment Terms'

WHERE 'Discount %' = 2

# 6.1. Calculations

Calculations may be performed both for columns and in WHERE If result columns are not named they becomes the name EXPR-1,2,...

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Name** | **Balance** | **EXPR-1** | **calc** | **new** |
| 1 | 10000 | The Cannon Group PLC | 164262.53 | 1149837.71 | 164264.53 | 164271.53 |
| 2 | 20000 | James Dailey Ltd. | 96049.99 | 672349.93 | 96051.99 | 96058.99 |
| 3 | 30000 | John Haddock Insurance Co. | 348754.27 | 2441279.89 | 348756.27 | 348763.27 |
| 4 | 50000 | Guildford Water Department | 32788.4 | 229518.8 | 32790.4 | 32797.4 |
| 5 | 01445544 | Progressive Home Furnishings | 2310.38 | 16172.66 | 2312.38 | 2319.38 |
| 6 | 01454545 | New Concepts Furniture | 342529.44 | 2397706.08 | 342531.44 | 342538.44 |
| 7 | 32656565 | ALLCOPY | 155268 | 1086876 | 155270 | 155277 |
| 8 | 35451236 | Nyform | 88164 | 617148 | 88166 | 88173 |
| 9 | 35963852 | Heimilisprydi | 203417.25 | 1423920.75 | 203419.25 | 203426.25 |
| 10 | 42147258 | BYT s.r.o. | 60218.65 | 421530.55 | 60220.65 | 60227.65 |
| 11 | 43687129 | Designstudio Gmunden | 92557.38 | 647901.66 | 92559.38 | 92566.38 |
| 12 | 46897889 | Englunds Kontorsmöbler AB | 12253.79 | 85776.53 | 12255.79 | 12262.79 |
| 13 | 47563218 | Klubben | 114728.73 | 803101.11 | 114730.73 | 114737.73 |
| 14 | 49525252 | Beef House | 13700.01 | 95900.07 | 13702.01 | 13709.01 |
| 15 | 49633663 | Auto-Günther KG | 6000 | 42000 | 6002 | 6009 |

4. Using calculations

SELECT No\_, Name, Balance, Balance \* 7, Balance + 2 calc, calc + 7 new

FROM Customer

WHERE new + 1 NOT BETWEEN 8 + 1 AND 99

# 6.2. Special column names

Special column names must be enclosed in '...', optionally for legal names

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Balance** | **Name** |
| 1 | 10000 | 164262.53 | The Cannon Group PLC |
| 2 | 20000 | 96049.99 | James Dailey Ltd. |
| 3 | 30000 | 348754.27 | John Haddock Insurance Co. |
| 4 | 50000 | 32788.4 | Guildford Water Department |
| 5 | 01445544 | 2310.38 | Progressive Home Furnishings |
| 6 | 01454545 | 342529.44 | New Concepts Furniture |
| 7 | 32656565 | 155268 | ALLCOPY |
| 8 | 35451236 | 88164 | Nyform |
| 9 | 35963852 | 203417.25 | Heimilisprydi |
| 10 | 42147258 | 60218.65 | BYT s.r.o. |
| 11 | 43687129 | 92557.38 | Designstudio Gmunden |
| 12 | 46897889 | 12253.79 | Englunds Kontorsmöbler AB |
| 13 | 47563218 | 114728.73 | Klubben |
| 14 | 49525252 | 13700.01 | Beef House |
| 15 | 49633663 | 6000 | Auto-Günther KG |

5. Special column names encloded in quotes

SELECT No\_,'Balance','Customer'.'Name'

FROM 'Customer'

WHERE 'Balance' > 1000

The IN function may be used to select records:

# 6.3. Selecting using the IN clause

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Description** | **Vendor No\_** |
| 1 | 70100 | Paint, black | 20000 |
| 2 | 70101 | Paint, yellow | 20000 |
| 3 | 70102 | Paint, blue | 20000 |
| 4 | 70103 | Paint, red | 20000 |
| 5 | 70104 | Paint, green | 20000 |
| 6 | 1900-S | PARIS Guest Chair, black | 20000 |
| 7 | 1920-S | ANTWERP Conference Table | 20000 |
| 8 | 1924-W | CHAMONIX Base Storage Unit | 20000 |
| 9 | 1936-S | BERLIN Guest Chair, yellow | 20000 |
| 10 | 1960-S | ROME Guest Chair, green | 20000 |
| 11 | 1964-S | TOKYO Guest Chair, blue | 20000 |
| 12 | 1988-S | SEOUL Guest Chair, red | 20000 |
| 13 | 1896-S | ATHENS Desk | 30000 |
| 14 | 1906-S | ATHENS Mobile Pedestal | 30000 |
| 15 | 1908-S | LONDON Swivel Chair, blue | 30000 |
| 16 | 1968-S | MEXICO Swivel Chair, black | 30000 |
| 17 | 1972-S | MUNICH Swivel Chair, yellow | 30000 |
| 18 | 1980-S | MOSCOW Swivel Chair, red | 30000 |
| 19 | 1996-S | ATLANTA Whiteboard, base | 30000 |
| 20 | 2000-S | SIDNEY Swivel Chair, green | 30000 |

6. The IN function

SELECT No\_, Description, 'Vendor No\_'

FROM Item

WHERE 'Vendor No\_' IN ("20000", "30000")

# 6.4. Correlation names

Several files can be used (joined) in one select. Correlation names (AS a) for tables may be given, AS may be omitted. The correlation name does not have to be given if no duplicate column names exists.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Name** | **Unit Price** | **No\_** | **Vendor No\_** | **Description** |
| 1 | 20000 | AR Day Property Management | 420.4 | 1920-S | 20000 | ANTWERP Conference Table |
| 2 | 30000 | CoolWood Technologies | 649.4 | 1896-S | 30000 | ATHENS Desk |
| 3 | 30000 | CoolWood Technologies | 906.7 | 1996-S | 30000 | ATLANTA Whiteboard, base |

7. Using AS clause for correlation name of table

SELECT No\_, Name, 'Unit Price', a.No\_, a.'Vendor No\_', a.Description

FROM Vendor, Item AS a

WHERE No\_ = a.'Vendor No\_' AND 'Unit Price' > 400

# 6.5. OUTER JOIN

Tables may be joined using the OUTER JOIN facility, below also suppliers without articles are in the result set.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Unit Price** | **No\_** | **Vendor No\_** | **Name** |
| 1 | 10000 | 30.7 | 70000 | 10000 | London Postmaster |
| 2 | 10000 | 40.3 | 70001 | 10000 | London Postmaster |
| 3 | 10000 | 28.7 | 70002 | 10000 | London Postmaster |
| 4 | 10000 | 29.6 | 70003 | 10000 | London Postmaster |
| 5 | 10000 | 52.1 | 70010 | 10000 | London Postmaster |
| 6 | 10000 | 72.3 | 70011 | 10000 | London Postmaster |
| 7 | 10000 | 108.2 | 70040 | 10000 | London Postmaster |
| 8 | 10000 | 23.4 | 70041 | 10000 | London Postmaster |
| 9 | 10000 | 1.3 | 70200 | 10000 | London Postmaster |
| 10 | 10000 | 1.2 | 70201 | 10000 | London Postmaster |
| 11 | 10000 | 35.6 | 1928-S | 10000 | London Postmaster |
| 12 | 20000 | 2.7 | 70100 | 20000 | AR Day Property Management |
| 13 | 20000 | 2.7 | 70101 | 20000 | AR Day Property Management |
| 14 | 20000 | 2.7 | 70102 | 20000 | AR Day Property Management |
| 15 | 20000 | 2.7 | 70103 | 20000 | AR Day Property Management |
| 16 | 20000 | 2.7 | 70104 | 20000 | AR Day Property Management |
| 17 | 20000 | 125.1 | 1900-S | 20000 | AR Day Property Management |
| 18 | 20000 | 420.4 | 1920-S | 20000 | AR Day Property Management |
| 19 | 20000 | 136.4 | 1924-W | 20000 | AR Day Property Management |
| 20 | 20000 | 125.1 | 1936-S | 20000 | AR Day Property Management |
| 21 | 20000 | 125.1 | 1960-S | 20000 | AR Day Property Management |
| 22 | 20000 | 125.1 | 1964-S | 20000 | AR Day Property Management |
| 23 | 20000 | 125.1 | 1988-S | 20000 | AR Day Property Management |
| 24 | 30000 | 649.4 | 1896-S | 30000 | CoolWood Technologies |
| 25 | 30000 | 281.4 | 1906-S | 30000 | CoolWood Technologies |
| 26 | 30000 | 123.3 | 1908-S | 30000 | CoolWood Technologies |
| 27 | 30000 | 123.3 | 1968-S | 30000 | CoolWood Technologies |
| 28 | 30000 | 123.3 | 1972-S | 30000 | CoolWood Technologies |
| 29 | 30000 | 123.3 | 1980-S | 30000 | CoolWood Technologies |
| 30 | 30000 | 906.7 | 1996-S | 30000 | CoolWood Technologies |
| 31 | 30000 | 123.3 | 2000-S | 30000 | CoolWood Technologies |
| 32 | 40000 | 0 |  |  | Lewis Home Furniture |
| 33 | 50000 | 0 |  |  | Service Electronics Ltd. |
| 34 | 01254796 | 0 |  |  | Progressive Home Furnishings |
| 35 | 01587796 | 0 |  |  | Custom Metals Incorporated |
| 36 | 01963656 | 0 |  |  | American Wood Exports |
| 37 | 31147896 | 0 |  |  | Houtindustrie Bruynsma |
| 38 | 31568974 | 0 |  |  | Koekamp Leerindustrie |
| 39 | 31580305 | 0 |  |  | Beekhuysen BV |
| 40 | 32456123 | 13.1 | 70060 | 32456123 | BATIMETAL |
| 41 | 32554455 | 0 |  |  | PURE-LOOK |
| 42 | 32665544 | 0 |  |  | VELUX |
| 43 | 34110257 | 0 |  |  | Importaciones S.A. |
| 44 | 34151086 | 0 |  |  | Subacqua |
| 45 | 34280789 | 0 |  |  | Transporte Roas |
| 46 | 35225588 | 0 |  |  | Husplast HF |
| 47 | 35336699 | 0 |  |  | Hurdir HF |
| 48 | 35741852 | 0 |  |  | Huslagnir |
| 49 | 38458653 | 0 |  |  | IVERKA POHISTVO d.o.o. |
| 50 | 38521479 | 0 |  |  | MASIVA d.o.o. |
| 51 | 38654478 | 0 |  |  | POIIORLES d.d. |
| 52 | 41124089 | 0 |  |  | Flückiger AG |
| 53 | 41483124 | 0 |  |  | Matter Transporte |
| 54 | 41568934 | 0 |  |  | Schreinerei Peter |
| 55 | 42125678 | 0 |  |  | UP Ostrov s.p. |
| 56 | 42784512 | 0 |  |  | TON s.r.o. |
| 57 | 42895623 | 0 |  |  | Mach & spol. v.o.s. |
| 58 | 43258545 | 0 |  |  | Sägewerk Mittersill |
| 59 | 43589632 | 0 |  |  | Paul Brettschneider KG |
| 60 | 43698547 | 0 |  |  | Beschläge Schacherhuber |
| 61 | 44127904 | 0 |  |  | WoodMart Supply Co. |
| 62 | 44127914 | 0 |  |  | Mortimor Car Company |
| 63 | 44729910 | 0 |  |  | Tool Mart |
| 64 | 44756404 | 0 |  |  | Furniture Industries |
| 65 | 45774477 | 0 |  |  | Fredborg Lamper A/S |
| 66 | 45858585 | 0 |  |  | Elvstrøm Træindustri A/S |
| 67 | 45868686 | 0 |  |  | Schmeichel Møbler A/S |
| 68 | 46558855 | 5.7 | 80100 | 46558855 | Kinnareds Träindustri AB |
| 69 | 46635241 | 0 |  |  | Viksjö Snickerifabrik AB |
| 70 | 46895623 | 0 |  |  | Svensk Möbeltextil AB |
| 71 | 47521478 | 0 |  |  | Møbelhuset AS |
| 72 | 47562214 | 0 |  |  | Stilmøbler as |
| 73 | 47586622 | 0 |  |  | Furumøbler A/S |
| 74 | 49454647 | 0 |  |  | VAG - Jürgensen |
| 75 | 49494949 | 0 |  |  | KKA Büromaschinen Gmbh |
| 76 | 49989898 | 0 |  |  | JB-Spedition |

8. Using OUTER JOIN

SELECT No\_, 'Unit Price', a.No\_, 'Vendor No\_', Vendor.Name

FROM Vendor, OUTER Item a

WHERE 'Vendor No\_' = No\_ AND 'Unit Price' > 0

The full ODBC extended escape clause for outer joins are supported, however *only* **LEFT OUTER JOINS** are implemented.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Unit Price** | **No\_** | **Vendor No\_** | **Name** |
| 1 | 30000 | 649.4 | 1896-S | 30000 | CoolWood Technologies |
| 2 | 30000 | 281.4 | 1906-S | 30000 | CoolWood Technologies |
| 3 | 30000 | 123.3 | 1908-S | 30000 | CoolWood Technologies |
| 4 | 30000 | 123.3 | 1968-S | 30000 | CoolWood Technologies |
| 5 | 30000 | 123.3 | 1972-S | 30000 | CoolWood Technologies |
| 6 | 30000 | 123.3 | 1980-S | 30000 | CoolWood Technologies |
| 7 | 30000 | 906.7 | 1996-S | 30000 | CoolWood Technologies |
| 8 | 30000 | 123.3 | 2000-S | 30000 | CoolWood Technologies |
| 9 | 40000 | 0 |  |  | Lewis Home Furniture |
| 10 | 50000 | 0 |  |  | Service Electronics Ltd. |
| 11 | 01254796 | 0 |  |  | Progressive Home Furnishings |
| 12 | 01587796 | 0 |  |  | Custom Metals Incorporated |
| 13 | 01963656 | 0 |  |  | American Wood Exports |
| 14 | 31147896 | 0 |  |  | Houtindustrie Bruynsma |
| 15 | 31568974 | 0 |  |  | Koekamp Leerindustrie |
| 16 | 31580305 | 0 |  |  | Beekhuysen BV |
| 17 | 32456123 | 13.1 | 70060 | 32456123 | BATIMETAL |
| 18 | 32554455 | 0 |  |  | PURE-LOOK |
| 19 | 32665544 | 0 |  |  | VELUX |
| 20 | 34110257 | 0 |  |  | Importaciones S.A. |
| 21 | 34151086 | 0 |  |  | Subacqua |
| 22 | 34280789 | 0 |  |  | Transporte Roas |
| 23 | 35225588 | 0 |  |  | Husplast HF |
| 24 | 35336699 | 0 |  |  | Hurdir HF |
| 25 | 35741852 | 0 |  |  | Huslagnir |
| 26 | 38458653 | 0 |  |  | IVERKA POHISTVO d.o.o. |
| 27 | 38521479 | 0 |  |  | MASIVA d.o.o. |
| 28 | 38654478 | 0 |  |  | POIIORLES d.d. |
| 29 | 41124089 | 0 |  |  | Flückiger AG |
| 30 | 41483124 | 0 |  |  | Matter Transporte |
| 31 | 41568934 | 0 |  |  | Schreinerei Peter |
| 32 | 42125678 | 0 |  |  | UP Ostrov s.p. |
| 33 | 42784512 | 0 |  |  | TON s.r.o. |
| 34 | 42895623 | 0 |  |  | Mach & spol. v.o.s. |
| 35 | 43258545 | 0 |  |  | Sägewerk Mittersill |
| 36 | 43589632 | 0 |  |  | Paul Brettschneider KG |
| 37 | 43698547 | 0 |  |  | Beschläge Schacherhuber |
| 38 | 44127904 | 0 |  |  | WoodMart Supply Co. |
| 39 | 44127914 | 0 |  |  | Mortimor Car Company |
| 40 | 44729910 | 0 |  |  | Tool Mart |
| 41 | 44756404 | 0 |  |  | Furniture Industries |
| 42 | 45774477 | 0 |  |  | Fredborg Lamper A/S |
| 43 | 45858585 | 0 |  |  | Elvstrøm Træindustri A/S |
| 44 | 45868686 | 0 |  |  | Schmeichel Møbler A/S |
| 45 | 46558855 | 5.7 | 80100 | 46558855 | Kinnareds Träindustri AB |
| 46 | 46635241 | 0 |  |  | Viksjö Snickerifabrik AB |
| 47 | 46895623 | 0 |  |  | Svensk Möbeltextil AB |
| 48 | 47521478 | 0 |  |  | Møbelhuset AS |
| 49 | 47562214 | 0 |  |  | Stilmøbler as |
| 50 | 47586622 | 0 |  |  | Furumøbler A/S |
| 51 | 49454647 | 0 |  |  | VAG - Jürgensen |
| 52 | 49494949 | 0 |  |  | KKA Büromaschinen Gmbh |
| 53 | 49989898 | 0 |  |  | JB-Spedition |

9. Using LEFT OUTER JOIN

SELECT No\_, 'Unit Price', a.No\_, 'Vendor No\_', Name

FROM { oj Vendor LEFT OUTER JOIN Item a ON 'Vendor No\_'=No\_ }

WHERE No\_ > 20000 AND 'Unit Price' > 0

# 6.6. Subqueries

Subqueries can be performed.

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Name** |
| 1 | 10000 | London Postmaster |
| 2 | 20000 | AR Day Property Management |
| 3 | 30000 | CoolWood Technologies |
| 4 | 32456123 | BATIMETAL |
| 5 | 46558855 | Kinnareds Träindustri AB |

10. Multiple SELECTs for subqueries

SELECT No\_, Name

FROM Vendor a

WHERE EXISTS

(SELECT \* FROM Item WHERE 'Vendor No\_' = a.No\_)

Comparision operators may be used for subqueries

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Balance** | **Name** |
| 1 | 10000 | 114096.4 | London Postmaster |
| 2 | 20000 | 2904.53 | AR Day Property Management |
| 3 | 30000 | 93660.82 | CoolWood Technologies |
| 4 | 40000 | 0 | Lewis Home Furniture |
| 5 | 50000 | 0 | Service Electronics Ltd. |
| 6 | 01254796 | 163573.93 | Progressive Home Furnishings |
| 7 | 01587796 | 0 | Custom Metals Incorporated |
| 8 | 01963656 | 119898.98 | American Wood Exports |
| 9 | 31147896 | 0 | Houtindustrie Bruynsma |
| 10 | 31568974 | 0 | Koekamp Leerindustrie |
| 11 | 31580305 | 0 | Beekhuysen BV |
| 12 | 32554455 | 0 | PURE-LOOK |
| 13 | 32665544 | 0 | VELUX |
| 14 | 34110257 | 0 | Importaciones S.A. |
| 15 | 34151086 | 0 | Subacqua |
| 16 | 34280789 | 0 | Transporte Roas |
| 17 | 35225588 | 0 | Husplast HF |
| 18 | 35336699 | 0 | Hurdir HF |
| 19 | 35741852 | 0 | Huslagnir |
| 20 | 38458653 | 193536 | IVERKA POHISTVO d.o.o. |
| 21 | 38521479 | 0 | MASIVA d.o.o. |
| 22 | 38654478 | 0 | POIIORLES d.d. |
| 23 | 41124089 | 0 | Flückiger AG |
| 24 | 41483124 | 0 | Matter Transporte |
| 25 | 41568934 | 0 | Schreinerei Peter |
| 26 | 42125678 | 0 | UP Ostrov s.p. |
| 27 | 42784512 | 0 | TON s.r.o. |
| 28 | 42895623 | 0 | Mach & spol. v.o.s. |
| 29 | 43258545 | 0 | Sägewerk Mittersill |
| 30 | 43589632 | 0 | Paul Brettschneider KG |
| 31 | 43698547 | 0 | Beschläge Schacherhuber |
| 32 | 44127904 | 0 | WoodMart Supply Co. |
| 33 | 44127914 | 0 | Mortimor Car Company |
| 34 | 44729910 | 0 | Tool Mart |
| 35 | 44756404 | 0 | Furniture Industries |
| 36 | 45774477 | 0 | Fredborg Lamper A/S |
| 37 | 45858585 | 0 | Elvstrøm Træindustri A/S |
| 38 | 45868686 | 0 | Schmeichel Møbler A/S |
| 39 | 46558855 | 5820.24 | Kinnareds Träindustri AB |
| 40 | 46635241 | 0 | Viksjö Snickerifabrik AB |
| 41 | 46895623 | 0 | Svensk Möbeltextil AB |
| 42 | 47521478 | 0 | Møbelhuset AS |
| 43 | 47562214 | 0 | Stilmøbler as |
| 44 | 47586622 | 0 | Furumøbler A/S |
| 45 | 49454647 | 12500.01 | VAG - Jürgensen |
| 46 | 49494949 | 17100.03 | KKA Büromaschinen Gmbh |
| 47 | 49989898 | 0 | JB-Spedition |

11. Using comparision operators

SELECT No\_, Balance, Name

FROM Vendor a

WHERE Balance > ALL

(SELECT 'Unit Price' + 7 FROM Item WHERE 'Vendor No\_' = a.No\_)

EXISTS, ALL, ANY, SOME may be used.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Balance** | **Name** |
| 1 | 32456123 | 0 | BATIMETAL |

12. Sample use of ANY comparision

SELECT No\_, Balance, Name

FROM Vendor a

WHERE Balance < ANY

(SELECT 'Unit Price' + 7 FROM Item WHERE 'Vendor No\_' = a.No\_)

By use of IN a result set may be scanned for values

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Name** |
| 1 | 10000 | London Postmaster |
| 2 | 20000 | AR Day Property Management |
| 3 | 30000 | CoolWood Technologies |
| 4 | 32456123 | BATIMETAL |
| 5 | 46558855 | Kinnareds Träindustri AB |

13. Scanning result set when using IN clause

SELECT No\_, Name FROM Vendor

WHERE No\_ IN (SELECT 'Vendor No\_' FROM Item)

# 6.7. Aggregate functions

Aggregate functions are impemented. *Note that calculations as SUM(balance)+2 are not allowed.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **EXPR-1** | **EXPR-2** | **EXPR-3** | **EXPR-4** | **EXPR-5** |
| 1 | 48 | 723090.94 | 193536 | 0 | 15064.39458 |

14. Aggregate functions COUNT, SUM, MAX, MIN, AVG

SELECT COUNT(\*), SUM(Balance), MAX(Balance), MIN(Balance), AVG(Balance)

FROM Vendor

More tables may be joined.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Name** | **Name** |
| 1 | 10000 | London Postmaster | London Postmaster |
| 2 | 20000 | AR Day Property Management | AR Day Property Management |
| 3 | 30000 | CoolWood Technologies | CoolWood Technologies |
| 4 | 40000 | Lewis Home Furniture | Lewis Home Furniture |
| 5 | 50000 | Service Electronics Ltd. | Service Electronics Ltd. |
| 6 | 01254796 | Progressive Home Furnishings | Progressive Home Furnishings |
| 7 | 01587796 | Custom Metals Incorporated | Custom Metals Incorporated |
| 8 | 01963656 | American Wood Exports | American Wood Exports |
| 9 | 31147896 | Houtindustrie Bruynsma | Houtindustrie Bruynsma |
| 10 | 31568974 | Koekamp Leerindustrie | Koekamp Leerindustrie |
| 11 | 31580305 | Beekhuysen BV | Beekhuysen BV |
| 12 | 32456123 | BATIMETAL | BATIMETAL |
| 13 | 32554455 | PURE-LOOK | PURE-LOOK |
| 14 | 32665544 | VELUX | VELUX |
| 15 | 34110257 | Importaciones S.A. | Importaciones S.A. |
| 16 | 34151086 | Subacqua | Subacqua |
| 17 | 34280789 | Transporte Roas | Transporte Roas |
| 18 | 35225588 | Husplast HF | Husplast HF |
| 19 | 35336699 | Hurdir HF | Hurdir HF |
| 20 | 35741852 | Huslagnir | Huslagnir |
| 21 | 38458653 | IVERKA POHISTVO d.o.o. | IVERKA POHISTVO d.o.o. |
| 22 | 38521479 | MASIVA d.o.o. | MASIVA d.o.o. |
| 23 | 38654478 | POIIORLES d.d. | POIIORLES d.d. |
| 24 | 41124089 | Flückiger AG | Flückiger AG |
| 25 | 41483124 | Matter Transporte | Matter Transporte |
| 26 | 41568934 | Schreinerei Peter | Schreinerei Peter |
| 27 | 42125678 | UP Ostrov s.p. | UP Ostrov s.p. |
| 28 | 42784512 | TON s.r.o. | TON s.r.o. |
| 29 | 42895623 | Mach & spol. v.o.s. | Mach & spol. v.o.s. |
| 30 | 43258545 | Sägewerk Mittersill | Sägewerk Mittersill |
| 31 | 43589632 | Paul Brettschneider KG | Paul Brettschneider KG |
| 32 | 43698547 | Beschläge Schacherhuber | Beschläge Schacherhuber |
| 33 | 44127904 | WoodMart Supply Co. | WoodMart Supply Co. |
| 34 | 44127914 | Mortimor Car Company | Mortimor Car Company |
| 35 | 44729910 | Tool Mart | Tool Mart |
| 36 | 44756404 | Furniture Industries | Furniture Industries |
| 37 | 45774477 | Fredborg Lamper A/S | Fredborg Lamper A/S |
| 38 | 45858585 | Elvstrøm Træindustri A/S | Elvstrøm Træindustri A/S |
| 39 | 45868686 | Schmeichel Møbler A/S | Schmeichel Møbler A/S |
| 40 | 46558855 | Kinnareds Träindustri AB | Kinnareds Träindustri AB |
| 41 | 46635241 | Viksjö Snickerifabrik AB | Viksjö Snickerifabrik AB |
| 42 | 46895623 | Svensk Möbeltextil AB | Svensk Möbeltextil AB |
| 43 | 47521478 | Møbelhuset AS | Møbelhuset AS |
| 44 | 47562214 | Stilmøbler as | Stilmøbler as |
| 45 | 47586622 | Furumøbler A/S | Furumøbler A/S |
| 46 | 49454647 | VAG - Jürgensen | VAG - Jürgensen |
| 47 | 49494949 | KKA Büromaschinen Gmbh | KKA Büromaschinen Gmbh |
| 48 | 49989898 | JB-Spedition | JB-Spedition |

15. Using the same table multiple times

SELECT No\_, Name, b.Name

FROM Vendor a, Vendor b

WHERE a.No\_ = b.No\_

# 6.8. LIKE and MATCHES

Like may be used for search on sting patterns as **"a\_b%c[^a-kp]"** The ODBC like escape clause is supported

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70000 | Side Panel |
| 2 | 70001 | Base |
| 3 | 70002 | Top Panel |
| 4 | 70003 | Rear Panel |
| 5 | 70010 | Wooden Door |
| 6 | 70011 | Glass Door |
| 7 | 70040 | Drawer |
| 8 | 70041 | Shelf |
| 9 | 70060 | Mounting |
| 10 | 70100 | Paint, black |
| 11 | 70101 | Paint, yellow |
| 12 | 70102 | Paint, blue |
| 13 | 70103 | Paint, red |
| 14 | 70104 | Paint, green |
| 15 | 70200 | Hinge |
| 16 | 70201 | Doorknob |
| 17 | 80100 | Printing Paper |
| 18 | 1896-S | ATHENS Desk |
| 19 | 1900-S | PARIS Guest Chair, black |
| 20 | 1906-S | ATHENS Mobile Pedestal |
| 21 | 1920-S | ANTWERP Conference Table |
| 22 | 1928-S | AMSTERDAM Lamp |
| 23 | 1936-S | BERLIN Guest Chair, yellow |
| 24 | 1964-W | INNSBRUCK Storage Unit/G.Door |
| 25 | 1972-S | MUNICH Swivel Chair, yellow |
| 26 | 1976-W | INNSBRUCK Storage Unit/W.Door |
| 27 | 1988-W | CALGARY Whiteboard, yellow |
| 28 | 1992-W | ALBERTVILLE Whiteboard, green |
| 29 | 1996-S | ATLANTA Whiteboard, base |
| 30 | 2000-S | SIDNEY Swivel Chair, green |

16. Using the LIKE function

SELECT No\_, Description

FROM Item

WHERE Description NOT LIKE "%O%" { escape 'x' }

Matches offers another search method with patterns as "a?b\*c[^a-kp]"

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70010 | Wooden Door |
| 2 | 70011 | Glass Door |
| 3 | 70201 | Doorknob |
| 4 | 1964-W | INNSBRUCK Storage Unit/G.Door |
| 5 | 1976-W | INNSBRUCK Storage Unit/W.Door |

17. Using the MATCHES function

SELECT No\_, Description

FROM Item

WHERE Description MATCHES "\*Door\*"

# 6.9. How to use functions within SELECT statements

Functions may be called directly of by use of the { fn ... } clause.

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **EXPR-1** |
| 1 | 10000 | the cannon group plc |
| 2 | 20000 | james dailey ltd. |
| 3 | 30000 | john haddock insurance co. |
| 4 | 40000 | deerfield graphics company |
| 5 | 50000 | guildford water department |
| 6 | 01121212 | spotsmeyer's furnishings |
| 7 | 01445544 | progressive home furnishings |
| 8 | 01454545 | new concepts furniture |
| 9 | 31505050 | woonboulevard kuitenbrouwer |
| 10 | 31669966 | meersen meubelen |
| 11 | 31987987 | jean de bouvier |
| 12 | 32124578 | orangerie |
| 13 | 32656565 | allcopy |
| 14 | 32789456 | prestige |
| 15 | 34010100 | libros s.a. |
| 16 | 34010199 | corporación beta |
| 17 | 34010602 | diseño industrial |
| 18 | 35122112 | a g husgogn |
| 19 | 35451236 | nyform |
| 20 | 35963852 | heimilisprydi |
| 21 | 38128456 | mema ljubljana d.o.o. |
| 22 | 38546552 | exportles d.o.o. |
| 23 | 38632147 | centromerkur d.o.o. |
| 24 | 41231215 | miro design |
| 25 | 41497647 | pilatus ag |
| 26 | 41597832 | möbel scherrer ag |
| 27 | 42147258 | byt s.r.o. |
| 28 | 42258258 | j & v v.o.s. |
| 29 | 42369147 | universal a.s. |
| 30 | 43687129 | designstudio gmunden |
| 31 | 43852147 | michael feit - möbelhaus |
| 32 | 43871144 | möbel siegfried |
| 33 | 44171511 | zuni home crafts ltd. |
| 34 | 44180220 | latel corporation |
| 35 | 44756404 | london light company |
| 36 | 45282828 | kontorforsyningen a/s |
| 37 | 45779977 | ravel møbler |
| 38 | 45979797 | lauritzen kontormøbler a/s |
| 39 | 46251425 | möbelhuset idea |
| 40 | 46525241 | form & miljö ab |
| 41 | 46897889 | englunds kontorsmöbler ab |
| 42 | 47523687 | alléhjørnet as |
| 43 | 47563218 | klubben |
| 44 | 47586954 | sjøboden |
| 45 | 49525252 | beef house |
| 46 | 49633663 | auto-günther kg |
| 47 | 49858585 | hotel continental |

18. Calling functions within SELECT

SELECT No\_, { fn LCASE(Name) }

FROM Customer

The full ODBC syntax for functions calls may also be used.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **EXPR-1** | **Name** |
| 1 | 10000 | 10000 | The Cannon Group PLC |
| 2 | 20000 | 20000 | James Dailey Ltd. |
| 3 | 30000 | 30000 | John Haddock Insurance Co. |
| 4 | 40000 | 40000 | Deerfield Graphics Company |
| 5 | 50000 | 50000 | Guildford Water Department |
| 6 | 01121212 | 1121212 | Spotsmeyer's Furnishings |
| 7 | 01445544 | 1445544 | Progressive Home Furnishings |
| 8 | 01454545 | 1454545 | New Concepts Furniture |
| 9 | 31505050 | 31505050 | Woonboulevard Kuitenbrouwer |
| 10 | 31669966 | 31669966 | Meersen Meubelen |
| 11 | 31987987 | 31987987 | Jean de Bouvier |
| 12 | 32124578 | 32124578 | ORANGERIE |
| 13 | 32656565 | 32656565 | ALLCOPY |
| 14 | 32789456 | 32789456 | PRESTIGE |
| 15 | 34010100 | 34010100 | Libros S.A. |
| 16 | 34010199 | 34010199 | Corporación Beta |
| 17 | 34010602 | 34010602 | Diseño industrial |
| 18 | 35122112 | 35122112 | A G Husgogn |
| 19 | 35451236 | 35451236 | Nyform |
| 20 | 35963852 | 35963852 | Heimilisprydi |
| 21 | 38128456 | 38128456 | MEMA Ljubljana d.o.o. |
| 22 | 38546552 | 38546552 | EXPORTLES d.o.o. |
| 23 | 38632147 | 38632147 | Centromerkur d.o.o. |
| 24 | 41231215 | 41231215 | Miro Design |
| 25 | 41497647 | 41497647 | Pilatus AG |
| 26 | 41597832 | 41597832 | Möbel Scherrer AG |
| 27 | 42147258 | 42147258 | BYT s.r.o. |
| 28 | 42258258 | 42258258 | J & V v.o.s. |
| 29 | 42369147 | 42369147 | UNIVERSAL a.s. |
| 30 | 43687129 | 43687129 | Designstudio Gmunden |
| 31 | 43852147 | 43852147 | Michael Feit - Möbelhaus |
| 32 | 43871144 | 43871144 | Möbel Siegfried |
| 33 | 44171511 | 44171511 | Zuni Home Crafts Ltd. |
| 34 | 44180220 | 44180220 | Latel Corporation |
| 35 | 44756404 | 44756404 | London Light Company |
| 36 | 45282828 | 45282828 | Kontorforsyningen A/S |
| 37 | 45779977 | 45779977 | Ravel Møbler |
| 38 | 45979797 | 45979797 | Lauritzen Kontormøbler A/S |
| 39 | 46251425 | 46251425 | Möbelhuset IDEA |
| 40 | 46525241 | 46525241 | Form & Miljö AB |
| 41 | 46897889 | 46897889 | Englunds Kontorsmöbler AB |
| 42 | 47523687 | 47523687 | Alléhjørnet AS |
| 43 | 47563218 | 47563218 | Klubben |
| 44 | 47586954 | 47586954 | Sjøboden |
| 45 | 49525252 | 49525252 | Beef House |
| 46 | 49633663 | 49633663 | Auto-Günther KG |
| 47 | 49858585 | 49858585 | Hotel Continental |

19. Calling functions within SELECT with full ODBC syntax

SELECT No\_, --(\*vendor(SWTools),product(ODBC) fn CONVERT(No\_,SQL\_INTEGER)\*)--, Name

FROM Customer

# 6.10. Date, Time and timestamp

Date, Time and Timestamp values may be stated by { d 'yyyy-mm-dd' }, { t 'hh:mm:ss' } and { ts 'yyyy-mm-dd hh:mm:ss' }

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Order Date** | **Posting Description** |
| 1 | 101016 | 2001-01-25 | Order 101016 |
| 2 | 101017 | 2001-01-26 | Order 101017 |
| 3 | 101018 | 2001-01-26 | Order 101018 |
| 4 | 101019 | 2001-01-22 | Order 101019 |
| 5 | 101020 | 2001-01-26 | Order 101020 |
| 6 | 101022 | 2001-02-04 | Order 101022 |
| 7 | 101023 | 2001-02-21 | Order 101023 |
| 8 | 1001 | 2001-01-25 | Invoice 1001 |
| 9 | 104004 | 2001-01-26 | Credit Memo 104004 |

20. Using Date, Time and Timestamp syntax

SELECT No\_, 'Order Date', 'Posting Description'

FROM 'Sales Header'

WHERE 'Order Date' > { d '2001-01-21' }

Dates stored in the files as YYMMDD or DDMMYY will be turned to correct SQLDate YYYY-MM-DD when the format is given as ,6, or ,8,

Timestamp data are asumed to be stored as 14 digits numeric YYYYMMDDHHMMSS, fractions of seconds are not supported.

The standard SQL syntax may also be used:

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Order Date** |
| 1 | 101016 | 2001-01-25 |
| 2 | 101017 | 2001-01-26 |
| 3 | 101018 | 2001-01-26 |
| 4 | 101019 | 2001-01-22 |
| 5 | 101020 | 2001-01-26 |
| 6 | 101022 | 2001-02-04 |
| 7 | 101023 | 2001-02-21 |
| 8 | 1001 | 2001-01-25 |
| 9 | 104004 | 2001-01-26 |

21. Using standard SQL syntax for dates

SELECT No\_, 'Order Date'

FROM 'Sales Header'

WHERE 'Order Date' > #2001-01-21#

# 6.11. Using field numbers

As an extension to SQL fieldnumbers may be given instead of fieldnames.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Vendor No\_** | **Unit Price** | **No\_** | **Name** |
| 1 | 1928-S | 10000 | 35.6 | 10000 | London Postmaster |
| 2 | 1900-S | 20000 | 125.1 | 20000 | AR Day Property Management |
| 3 | 1964-S | 20000 | 125.1 | 20000 | AR Day Property Management |
| 4 | 1920-S | 20000 | 420.4 | 20000 | AR Day Property Management |
| 5 | 1924-W | 20000 | 136.4 | 20000 | AR Day Property Management |
| 6 | 1936-S | 20000 | 125.1 | 20000 | AR Day Property Management |
| 7 | 1960-S | 20000 | 125.1 | 20000 | AR Day Property Management |
| 8 | 1988-S | 20000 | 125.1 | 20000 | AR Day Property Management |
| 9 | 1908-S | 30000 | 123.3 | 30000 | CoolWood Technologies |
| 10 | 1906-S | 30000 | 281.4 | 30000 | CoolWood Technologies |
| 11 | 1972-S | 30000 | 123.3 | 30000 | CoolWood Technologies |
| 12 | 1980-S | 30000 | 123.3 | 30000 | CoolWood Technologies |
| 13 | 1968-S | 30000 | 123.3 | 30000 | CoolWood Technologies |
| 14 | 1996-S | 30000 | 906.7 | 30000 | CoolWood Technologies |

22. Using field numbers instead of field names

SELECT #1, #31, 'Unit Price', a.#1-2

FROM Item, Vendor a

WHERE #1 MATCHES("19\*") AND a.#1 = #31

ORDER BY #31

Any calculations may be given, including operations on TABLE (subscripted) fields

# 6.12. Field subscriptions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Budgeted Amoun** | **EXPR-1** | **Standard Cost** |
| 1 | 70000 | Side Panel | 0 | 0 | 0 |
| 2 | 70001 | Base | 0 | 0 | 0 |
| 3 | 70002 | Top Panel | 0 | 0 | 0 |
| 4 | 70003 | Rear Panel | 0 | 0 | 0 |
| 5 | 70010 | Wooden Door | 0 | 0 | 0 |
| 6 | 70011 | Glass Door | 0 | 0 | 0 |
| 7 | 70040 | Drawer | 0 | 0 | 0 |
| 8 | 70041 | Shelf | 0 | 0 | 0 |
| 9 | 70060 | Mounting | 0 | 0 | 0 |
| 10 | 70100 | Paint, black | 0 | 0 | 0 |
| 11 | 70101 | Paint, yellow | 0 | 0 | 0 |
| 12 | 70102 | Paint, blue | 0 | 0 | 0 |
| 13 | 70103 | Paint, red | 0 | 0 | 0 |
| 14 | 70104 | Paint, green | 0 | 0 | 0 |
| 15 | 70200 | Hinge | 0 | 0 | 0 |
| 16 | 70201 | Doorknob | 0 | 0 | 0 |
| 17 | 80100 | Printing Paper | 0 | 0 | 0 |
| 18 | 1896-S | ATHENS Desk | 0 | 0 | 0 |
| 19 | 1900-S | PARIS Guest Chair, black | 0 | 0 | 0 |
| 20 | 1906-S | ATHENS Mobile Pedestal | 0 | 0 | 0 |
| 21 | 1908-S | LONDON Swivel Chair, blue | 0 | 0 | 0 |
| 22 | 1920-S | ANTWERP Conference Table | 0 | 0 | 0 |
| 23 | 1924-W | CHAMONIX Base Storage Unit | 0 | 0 | 81.6 |
| 24 | 1928-S | AMSTERDAM Lamp | 0 | 0 | 0 |
| 25 | 1928-W | ST.MORITZ Storage Unit/Drawers | 0 | 0 | 192 |
| 26 | 1936-S | BERLIN Guest Chair, yellow | 0 | 0 | 0 |
| 27 | 1952-W | OSLO Storage Unit/Shelf | 0 | 0 | 93.6 |
| 28 | 1960-S | ROME Guest Chair, green | 0 | 0 | 0 |
| 29 | 1964-S | TOKYO Guest Chair, blue | 0 | 0 | 0 |
| 30 | 1964-W | INNSBRUCK Storage Unit/G.Door | 0 | 0 | 171.2 |
| 31 | 1968-S | MEXICO Swivel Chair, black | 0 | 0 | 0 |
| 32 | 1968-W | GRENOBLE Whiteboard, red | 0 | 0 | 708.6 |
| 33 | 1972-S | MUNICH Swivel Chair, yellow | 0 | 0 | 0 |
| 34 | 1972-W | SAPPORO Whiteboard, black | 0 | 0 | 708.6 |
| 35 | 1976-W | INNSBRUCK Storage Unit/W.Door | 0 | 0 | 150.6 |
| 36 | 1980-S | MOSCOW Swivel Chair, red | 0 | 0 | 0 |
| 37 | 1984-W | SARAJEVO Whiteboard, blue | 0 | 0 | 708.6 |
| 38 | 1988-S | SEOUL Guest Chair, red | 0 | 0 | 0 |
| 39 | 1988-W | CALGARY Whiteboard, yellow | 0 | 0 | 708.6 |
| 40 | 1992-W | ALBERTVILLE Whiteboard, green | 0 | 0 | 708.6 |
| 41 | 1996-S | ATLANTA Whiteboard, base | 0 | 0 | 0 |
| 42 | 2000-S | SIDNEY Swivel Chair, green | 0 | 0 | 0 |
| 43 | 766BC-A | OLYMPIC Conference System | 0 | 0 | 3519 |
| 44 | 766BC-B | OLYMPIC Office System | 0 | 0 | 1245.8 |
| 45 | 766BC-C | OLYMPIC Storage System | 0 | 0 | 614 |

23. Subscribed fields

SELECT No\_, Description, 'Budgeted Amount', 'Budgeted Amount'(1), 'Standard Cost'

FROM Item

# 6.13. GROUP BY, HAVING, DISTINCT and UNION

The GROUP BY may be used to form groups of aggregate functions

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Vendor No\_** | **EXPR-1** | **EXPR-2** |
| 1 |  | 12 | 14068.70022 |
| 2 | 10000 | 11 | 423.4 |
| 3 | 20000 | 12 | 1195.8 |
| 4 | 30000 | 8 | 2454 |
| 5 | 32456123 | 1 | 13.1 |
| 6 | 46558855 | 1 | 5.7 |

24. A simple GROUP BY sample

SELECT 'Vendor No\_', COUNT(\*), SUM('Unit Price')

FROM Item

GROUP BY 'Vendor No\_'

Having is a selection after the grouping has been done

|  |  |  |
| --- | --- | --- |
|  | **Vendor No\_** | **EXPR-1** |
| 1 | 32456123 | 13.1 |
| 2 | 46558855 | 5.7 |

25. A simple HAVING sample

SELECT 'Vendor No\_', SUM('Unit Price')

FROM Item

GROUP BY 'Vendor No\_'

HAVING COUNT(\*) = 1

By use of DISTINCT all columns with the same contents are suppressed

|  |  |  |
| --- | --- | --- |
|  | **Vendor No\_** | **Class** |
| 1 | 10000 |  |
| 2 | 32456123 |  |
| 3 | 20000 |  |
| 4 | 46558855 |  |
| 5 | 30000 |  |
| 6 |  |  |

26. SELECT using DISTINCT

SELECT DISTINCT 'Vendor No\_', Class

FROM Item

The DISTINCT may also suppress values when used with the aggregate functions

|  |  |  |
| --- | --- | --- |
|  | **EXPR-1** | **EXPR-2** |
| 1 | 13257.10022 | 6 |

27. SELECT using DISTINCT on aggregate functions

SELECT SUM(DISTINCT 'Unit Price'), COUNT(DISTINCT 'Vendor No\_')

FROM Item

UNIONs of select statements may be formed, UNION ALL is supported.

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Standard Cost** |
| 1 | 70000 | 0 |
| 2 | 70001 | 0 |
| 3 | 70002 | 0 |
| 4 | 70003 | 0 |
| 5 | 70010 | 0 |
| 6 | 70011 | 0 |
| 7 | 70040 | 0 |
| 8 | 70041 | 0 |
| 9 | 70060 | 0 |
| 10 | 70100 | 0 |
| 11 | 70101 | 0 |
| 12 | 70102 | 0 |
| 13 | 70103 | 0 |
| 14 | 70104 | 0 |
| 15 | 70200 | 0 |
| 16 | 70201 | 0 |
| 17 | 80100 | 0 |
| 18 | 1896-S | 0 |
| 19 | 1900-S | 0 |
| 20 | 1906-S | 0 |
| 21 | 1908-S | 0 |
| 22 | 1920-S | 0 |
| 23 | 1968-S | 0 |
| 24 | 1928-S | 0 |
| 25 | 2000-S | 0 |
| 26 | 1936-S | 0 |
| 27 | 1964-S | 0 |
| 28 | 1960-S | 0 |
| 29 | 1972-S | 0 |
| 30 | 1988-S | 0 |
| 31 | 1996-S | 0 |
| 32 | 1980-S | 0 |
| 33 | 1924-W | 81.6 |
| 34 | 1952-W | 93.6 |
| 35 | 70040 | 108.2 |
| 36 | 2000-S | 123.3 |
| 37 | 1980-S | 123.3 |
| 38 | 1972-S | 123.3 |
| 39 | 1968-S | 123.3 |
| 40 | 1908-S | 123.3 |
| 41 | 1936-S | 125.1 |
| 42 | 1964-S | 125.1 |
| 43 | 1960-S | 125.1 |
| 44 | 1988-S | 125.1 |
| 45 | 1900-S | 125.1 |
| 46 | 1924-W | 136.4 |
| 47 | 1976-W | 150.6 |
| 48 | 1952-W | 158.5 |
| 49 | 1964-W | 171.2 |
| 50 | 1928-W | 192 |
| 51 | 1976-W | 256.1 |
| 52 | 1906-S | 281.4 |
| 53 | 1964-W | 292 |
| 54 | 1928-W | 342.1 |
| 55 | 1920-S | 420.4 |
| 56 | 766BC-C | 614 |
| 57 | 1896-S | 649.4 |
| 58 | 1984-W | 708.6 |
| 59 | 1968-W | 708.6 |
| 60 | 1972-W | 708.6 |
| 61 | 1992-W | 708.6 |
| 62 | 1988-W | 708.6 |
| 63 | 1996-S | 906.7 |
| 64 | 766BC-C | 944.59998 |
| 65 | 1968-W | 974.8 |
| 66 | 1992-W | 974.8 |
| 67 | 1988-W | 974.8 |
| 68 | 1972-W | 974.8 |
| 69 | 1984-W | 974.8 |
| 70 | 766BC-B | 1787.5999 |
| 71 | 766BC-A | 5413.80034 |

28. SELECT using UNIONs

SELECT No\_, 'Unit Price'

FROM Item

WHERE 'Unit Price' > 100

UNION ALL

SELECT No\_, 'Standard Cost' FROM Item WHERE 'Standard Cost' < 1000 ORDER BY 2

Anywhere a SELECT statement can be used, the VALUES table constructor may be used.

# 6.14. VALUES constructor and SELECT from result set

|  |  |  |  |
| --- | --- | --- | --- |
|  | **V1** | **V2** | **V3** |
| 1 | 4701 | aa | 65 |
| 2 | 4702 | bb | 8 |

29. VALUES constructor

SELECT \*

FROM VALUES ("4701","aa",65),("4702","bb",8)

SELECT from a resultset is also possible.

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Name** |
| 1 | 40000 | Deerfield Graphics Company |
| 2 | 34010602 | Diseño industrial |
| 3 | 43687129 | Designstudio Gmunden |

30. SELECT from result set

SELECT \*

FROM (SELECT No\_, Name FROM Customer)

WHERE Name MATCHES("D\*")

Note by joining tables the WHERE becomes really importent. If no where is stated, the joined table is read once for each element in the first table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | CM | CM |  | 0 | Current month | CM | CM |  | 0 | Current month |
| 2 | CM | CM |  | 0 | Current month | COD | 0D |  | 0 | Cash on delivery |
| 3 | CM | CM |  | 0 | Current month | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | CM | CM |  | 0 | Current month | 14DAYS | 14D |  | 0 | Net 14 days |
| 5 | CM | CM |  | 0 | Current month | 21DAYS | 21D |  | 0 | Net 21 days |
| 6 | CM | CM |  | 0 | Current month | 7DAYS | 7D |  | 0 | Net 7 days |
| 7 | COD | 0D |  | 0 | Cash on delivery | CM | CM |  | 0 | Current month |
| 8 | COD | 0D |  | 0 | Cash on delivery | COD | 0D |  | 0 | Cash on delivery |
| 9 | COD | 0D |  | 0 | Cash on delivery | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 10 | COD | 0D |  | 0 | Cash on delivery | 14DAYS | 14D |  | 0 | Net 14 days |
| 11 | COD | 0D |  | 0 | Cash on delivery | 21DAYS | 21D |  | 0 | Net 21 days |
| 12 | COD | 0D |  | 0 | Cash on delivery | 7DAYS | 7D |  | 0 | Net 7 days |
| 13 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | CM | CM |  | 0 | Current month |
| 14 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | COD | 0D |  | 0 | Cash on delivery |
| 15 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 16 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | 14DAYS | 14D |  | 0 | Net 14 days |
| 17 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | 21DAYS | 21D |  | 0 | Net 21 days |
| 18 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days | 7DAYS | 7D |  | 0 | Net 7 days |
| 19 | 14DAYS | 14D |  | 0 | Net 14 days | CM | CM |  | 0 | Current month |
| 20 | 14DAYS | 14D |  | 0 | Net 14 days | COD | 0D |  | 0 | Cash on delivery |
| 21 | 14DAYS | 14D |  | 0 | Net 14 days | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 22 | 14DAYS | 14D |  | 0 | Net 14 days | 14DAYS | 14D |  | 0 | Net 14 days |
| 23 | 14DAYS | 14D |  | 0 | Net 14 days | 21DAYS | 21D |  | 0 | Net 21 days |
| 24 | 14DAYS | 14D |  | 0 | Net 14 days | 7DAYS | 7D |  | 0 | Net 7 days |
| 25 | 21DAYS | 21D |  | 0 | Net 21 days | CM | CM |  | 0 | Current month |
| 26 | 21DAYS | 21D |  | 0 | Net 21 days | COD | 0D |  | 0 | Cash on delivery |
| 27 | 21DAYS | 21D |  | 0 | Net 21 days | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 28 | 21DAYS | 21D |  | 0 | Net 21 days | 14DAYS | 14D |  | 0 | Net 14 days |
| 29 | 21DAYS | 21D |  | 0 | Net 21 days | 21DAYS | 21D |  | 0 | Net 21 days |
| 30 | 21DAYS | 21D |  | 0 | Net 21 days | 7DAYS | 7D |  | 0 | Net 7 days |
| 31 | 7DAYS | 7D |  | 0 | Net 7 days | CM | CM |  | 0 | Current month |
| 32 | 7DAYS | 7D |  | 0 | Net 7 days | COD | 0D |  | 0 | Cash on delivery |
| 33 | 7DAYS | 7D |  | 0 | Net 7 days | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 34 | 7DAYS | 7D |  | 0 | Net 7 days | 14DAYS | 14D |  | 0 | Net 14 days |
| 35 | 7DAYS | 7D |  | 0 | Net 7 days | 21DAYS | 21D |  | 0 | Net 21 days |
| 36 | 7DAYS | 7D |  | 0 | Net 7 days | 7DAYS | 7D |  | 0 | Net 7 days |

31. Joined tables without where

SELECT \*, a.\*

FROM 'Payment Terms', 'Payment Terms' a

# 7. Using Filter fields

Filter fields are supported within the WHERE clause.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Name** | **Net Change** |
| 1 | 2940 | Giro Account | -28250 |
| 2 | 2990 | Liquid Assets, Total | -28250 |
| 3 | 2995 | Current Assets, Total | -28250 |
| 4 | 2999 | TOTAL ASSETS | -28250 |
| 5 | 3195 | Net Income for the Year | 22600 |
| 6 | 3199 | Total Stockholder's Equity | 22600 |
| 7 | 5530 | Purchase VAT 25 % | 5650 |
| 8 | 5790 | VAT, Total | 5650 |
| 9 | 5995 | Short-term Liabilities, Total | 5650 |
| 10 | 5997 | Total Liabilities | 5650 |
| 11 | 5999 | TOTAL LIABILITIES AND EQUITY | 28250 |
| 12 | 8530 | Repairs and Maintenance | 20000 |
| 13 | 8590 | Vehicle Expenses | 20000 |
| 14 | 8640 | Miscellaneous | 2600 |
| 15 | 8690 | Other Operating Exp., Total | 2600 |
| 16 | 8695 | Total Operating Expenses | 22600 |
| 17 | 8995 | Net Operating Income | 22600 |
| 18 | 9395 | NI BEFORE EXTR. ITEMS & TAXES | 22600 |
| 19 | 9495 | NET INCOME BEFORE TAXES | 22600 |
| 20 | 9999 | NET INCOME | 22600 |

SELECT No\_, Name, 'Net Change'

FROM 'G/L Account'

WHERE 'Date Filter' = "28-02-00" AND 'Net Change' <> 0

The **AND 'Net Change' <> 0** is used only to reduce the result.

The actual filter field may also be selected

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **No\_** | **Name** | **Net Change** | **Date Filter** |
| 1 | 1240 | Accum. Depr., Oper. Equip. | -290 | 30-06-00 |
| 2 | 1290 | Operating Equipment, Total | -290 | 30-06-00 |
| 3 | 1340 | Accum. Depreciation, Vehicles | -1450 | 30-06-00 |
| 4 | 1390 | Vehicles, Total | -1450 | 30-06-00 |
| 5 | 1395 | Tangible Fixed Assets, Total | -1740 | 30-06-00 |
| 6 | 1999 | Fixed Assets, Total | -1740 | 30-06-00 |
| 7 | 2940 | Giro Account | -500 | 30-06-00 |
| 8 | 2990 | Liquid Assets, Total | -500 | 30-06-00 |
| 9 | 2995 | Current Assets, Total | -500 | 30-06-00 |
| 10 | 2999 | TOTAL ASSETS | -2240 | 30-06-00 |
| 11 | 3195 | Net Income for the Year | 2140 | 30-06-00 |
| 12 | 3199 | Total Stockholder's Equity | 2140 | 30-06-00 |
| 13 | 5530 | Purchase VAT 25 % | 100 | 30-06-00 |
| 14 | 5790 | VAT, Total | 100 | 30-06-00 |
| 15 | 5995 | Short-term Liabilities, Total | 100 | 30-06-00 |
| 16 | 5997 | Total Liabilities | 100 | 30-06-00 |
| 17 | 5999 | TOTAL LIABILITIES AND EQUITY | 2240 | 30-06-00 |
| 18 | 8530 | Repairs and Maintenance | 400 | 30-06-00 |
| 19 | 8590 | Vehicle Expenses | 400 | 30-06-00 |
| 20 | 8695 | Total Operating Expenses | 400 | 30-06-00 |
| 21 | 8820 | Depreciation, Equipment | 290 | 30-06-00 |
| 22 | 8830 | Depreciation, Vehicles | 1450 | 30-06-00 |
| 23 | 8890 | Total Fixed Asset Depreciation | 1740 | 30-06-00 |
| 24 | 8995 | Net Operating Income | 2140 | 30-06-00 |
| 25 | 9395 | NI BEFORE EXTR. ITEMS & TAXES | 2140 | 30-06-00 |
| 26 | 9495 | NET INCOME BEFORE TAXES | 2140 | 30-06-00 |
| 27 | 9999 | NET INCOME | 2140 | 30-06-00 |

SELECT No\_, Name, 'Net Change', 'Date Filter'

FROM 'G/L Account'

WHERE 'Date Filter' = "30-06-00" AND 'Net Change' <> 0

# 8. Updating the database and datadictionary itself

The SW-Tools ODBC driver may be delivered for read-only or optionally with update for Navision Financials.

The INTO TEMP clause creates a file and file definition with the given name. This file exists until you manually delete it with DROP TABLE which makes INTO TEMP an easy way to export a file to another system.

The filename may be qualified by: xx\yyyy.name, where

xx = Desided file ID, if omitted or invalid the driver selects a free ID

yyyy = BASIS file interface name (owner), defaults to the first (SSV).

The file definition will be marked TEMP, any existing TEMP file is overwritten. The ORDER BY (or GROUP BY) is used to define the file index.If omitted an index as #1 is used.

# 8.1. Copying table INTO TEMP

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 14DAYS | 14D |  | 0 | Net 14 days |
| 2 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 3 | 21DAYS | 21D |  | 0 | Net 21 days |
| 4 | 7DAYS | 7D |  | 0 | Net 7 days |
| 5 | CM | CM |  | 0 | Current month |
| 6 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM 'Payment Terms'

ORDER BY 1

INTO TEMP za\nf.mytable

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 14DAYS | 14D |  | 0 | Net 14 days |
| 2 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 3 | 21DAYS | 21D |  | 0 | Net 21 days |
| 4 | 7DAYS | 7D |  | 0 | Net 7 days |
| 5 | CM | CM |  | 0 | Current month |
| 6 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

# 8.2. INSERT values INTO table

By use of INSERT...VALUES new records can be created

*Query executed - No results returned.*

INSERT INTO mytable

VALUES (1,2,3)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | 21DAYS | 21D |  | 0 | Net 21 days |
| 5 | 7DAYS | 7D |  | 0 | Net 7 days |
| 6 | CM | CM |  | 0 | Current month |
| 7 | COD | 0D |  | 0 | Cash on delivery |

SELECT \* FROM mytable

Records from other tables can be copied with INSERT...SELECT

# 8.3. INSERT values from other tables

*Query executed - No results returned.*

INSERT INTO mytable

(SELECT No\_ FROM Item WHERE No\_ < 70100)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | 21DAYS | 21D |  | 0 | Net 21 days |
| 5 | 70000 |  |  | 0 |  |
| 6 | 70001 |  |  | 0 |  |
| 7 | 70002 |  |  | 0 |  |
| 8 | 70003 |  |  | 0 |  |
| 9 | 70010 |  |  | 0 |  |
| 10 | 70011 |  |  | 0 |  |
| 11 | 70040 |  |  | 0 |  |
| 12 | 70041 |  |  | 0 |  |
| 13 | 70060 |  |  | 0 |  |
| 14 | 7DAYS | 7D |  | 0 | Net 7 days |
| 15 | CM | CM |  | 0 | Current month |
| 16 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

Insert columns may be given and the value table contructor may be used to form multiple records

*Query executed - No results returned.*

INSERT INTO mytable

(Code,Description,'Discount %') VALUES ("4701","aa",65),("4702","bb",8)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | 21DAYS | 21D |  | 0 | Net 21 days |
| 5 | 4701 |  |  | 65 | aa |
| 6 | 4702 |  |  | 8 | bb |
| 7 | 70000 |  |  | 0 |  |
| 8 | 70001 |  |  | 0 |  |
| 9 | 70002 |  |  | 0 |  |
| 10 | 70003 |  |  | 0 |  |
| 11 | 70010 |  |  | 0 |  |
| 12 | 70011 |  |  | 0 |  |
| 13 | 70040 |  |  | 0 |  |
| 14 | 70041 |  |  | 0 |  |
| 15 | 70060 |  |  | 0 |  |
| 16 | 7DAYS | 7D |  | 0 | Net 7 days |
| 17 | CM | CM |  | 0 | Current month |
| 18 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

Together with the select specific columns can be moved

*Query executed - No results returned.*

INSERT INTO mytable

(Code,Description,'Discount %')

(SELECT No\_, Description, 'Unit Price' FROM Item WHERE 'Unit Price' > 500)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1896-S |  |  | 649.4 | ATHENS Desk |
| 4 | 1968-W |  |  | 974.8 | GRENOBLE Whiteboard, red |
| 5 | 1972-W |  |  | 974.8 | SAPPORO Whiteboard, black |
| 6 | 1984-W |  |  | 974.8 | SARAJEVO Whiteboard, blue |
| 7 | 1988-W |  |  | 974.8 | CALGARY Whiteboard, yellow |
| 8 | 1992-W |  |  | 974.8 | ALBERTVILLE Whiteboard, green |
| 9 | 1996-S |  |  | 906.7 | ATLANTA Whiteboard, base |
| 10 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 11 | 21DAYS | 21D |  | 0 | Net 21 days |
| 12 | 4701 |  |  | 65 | aa |
| 13 | 4702 |  |  | 8 | bb |
| 14 | 70000 |  |  | 0 |  |
| 15 | 70001 |  |  | 0 |  |
| 16 | 70002 |  |  | 0 |  |
| 17 | 70003 |  |  | 0 |  |
| 18 | 70010 |  |  | 0 |  |
| 19 | 70011 |  |  | 0 |  |
| 20 | 70040 |  |  | 0 |  |
| 21 | 70041 |  |  | 0 |  |
| 22 | 70060 |  |  | 0 |  |
| 23 | 766BC-A |  |  | 5413.80034 | OLYMPIC Conference System |
| 24 | 766BC-B |  |  | 1787.5999 | OLYMPIC Office System |
| 25 | 766BC-C |  |  | 944.59998 | OLYMPIC Storage System |
| 26 | 7DAYS | 7D |  | 0 | Net 7 days |
| 27 | CM | CM |  | 0 | Current month |
| 28 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

# 8.4. Updating existing records

Existing records can be updated with the UPDATE searched statement

*Query executed - No results returned.*

UPDATE mytable

SET 'Discount %' = 10

WHERE 'Discount %' > 500

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1896-S |  |  | 10 | ATHENS Desk |
| 4 | 1968-W |  |  | 10 | GRENOBLE Whiteboard, red |
| 5 | 1972-W |  |  | 10 | SAPPORO Whiteboard, black |
| 6 | 1984-W |  |  | 10 | SARAJEVO Whiteboard, blue |
| 7 | 1988-W |  |  | 10 | CALGARY Whiteboard, yellow |
| 8 | 1992-W |  |  | 10 | ALBERTVILLE Whiteboard, green |
| 9 | 1996-S |  |  | 10 | ATLANTA Whiteboard, base |
| 10 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 11 | 21DAYS | 21D |  | 0 | Net 21 days |
| 12 | 4701 |  |  | 65 | aa |
| 13 | 4702 |  |  | 8 | bb |
| 14 | 70000 |  |  | 0 |  |
| 15 | 70001 |  |  | 0 |  |
| 16 | 70002 |  |  | 0 |  |
| 17 | 70003 |  |  | 0 |  |
| 18 | 70010 |  |  | 0 |  |
| 19 | 70011 |  |  | 0 |  |
| 20 | 70040 |  |  | 0 |  |
| 21 | 70041 |  |  | 0 |  |
| 22 | 70060 |  |  | 0 |  |
| 23 | 766BC-A |  |  | 10 | OLYMPIC Conference System |
| 24 | 766BC-B |  |  | 10 | OLYMPIC Office System |
| 25 | 766BC-C |  |  | 10 | OLYMPIC Storage System |
| 26 | 7DAYS | 7D |  | 0 | Net 7 days |
| 27 | CM | CM |  | 0 | Current month |
| 28 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

# 8.5. DELETE multiple records

The searched DELETE removes one or several records

*Query executed - No results returned.*

DELETE FROM mytable

WHERE 'Discount %' = 10

After the delete the function SQLRowCount delivers number of rows updated:

|  |  |
| --- | --- |
|  | **Rows** |
| 1 | 10 |

SQLRowCount(hstmt)

And the resulting table looks like:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | 1 | 2 | 3 | 0 |  |
| 2 | 14DAYS | 14D |  | 0 | Net 14 days |
| 3 | 1M(8D) | 1M | 8D | 2 | 1 Month/2% 8 days |
| 4 | 21DAYS | 21D |  | 0 | Net 21 days |
| 5 | 4701 |  |  | 65 | aa |
| 6 | 4702 |  |  | 8 | bb |
| 7 | 70000 |  |  | 0 |  |
| 8 | 70001 |  |  | 0 |  |
| 9 | 70002 |  |  | 0 |  |
| 10 | 70003 |  |  | 0 |  |
| 11 | 70010 |  |  | 0 |  |
| 12 | 70011 |  |  | 0 |  |
| 13 | 70040 |  |  | 0 |  |
| 14 | 70041 |  |  | 0 |  |
| 15 | 70060 |  |  | 0 |  |
| 16 | 7DAYS | 7D |  | 0 | Net 7 days |
| 17 | CM | CM |  | 0 | Current month |
| 18 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM mytable

# 8.6. DROP table

Using DROP TABLE a table and its definition can be removed.

*Query executed - No results returned.*

DROP TABLE mytable

# 9. Current of cursors

To avoid changes in the demo Navision Financials database we duplicate

- Item

- Vendor

into

- SWItem

- SWVendor

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No\_** | **No 2** | **Description** | **Search Description** | **Description 2** | **Bill** | **Class** | **Base Unit of** | **Price Unit** | **Inventory Pos** | **She** |
| 1 | 1896-S |  | ATHENS Desk | ATHENS DESK |  | 0 |  | PCS | 0 | RESALE |  |
| 2 | 1900-S |  | PARIS Guest Chair, black | PARIS GUEST CHAIR, BLACK |  | 0 |  | PCS | 0 | RESALE |  |
| 3 | 1906-S |  | ATHENS Mobile Pedestal | ATHENS MOBILE PEDESTAL |  | 0 |  | PCS | 0 | RESALE |  |
| 4 | 1908-S |  | LONDON Swivel Chair, blue | LONDON SWIVEL CHAIR, BLUE |  | 0 |  | PCS | 0 | RESALE |  |
| 5 | 1920-S |  | ANTWERP Conference Table | ANTWERP CONFERENCE TABLE |  | 0 |  | PCS | 0 | RESALE |  |
| 6 | 1924-W |  | CHAMONIX Base Storage Unit | CHAMONIX BASE STORAGE UNIT |  | 1 |  | PCS | 0 | FINISHED |  |
| 7 | 1928-S |  | AMSTERDAM Lamp | AMSTERDAM LAMP |  | 0 |  | PCS | 0 | RESALE |  |
| 8 | 1928-W |  | ST.MORITZ Storage Unit/Drawers | ST.MORITZ STORAGE UNIT/DRAWERS |  | 1 |  | PCS | 0 | FINISHED |  |
| 9 | 1936-S |  | BERLIN Guest Chair, yellow | BERLIN GUEST CHAIR, YELLOW |  | 0 |  | PCS | 0 | RESALE |  |
| 10 | 1952-W |  | OSLO Storage Unit/Shelf | OSLO STORAGE UNIT/SHELF |  | 1 |  | PCS | 0 | FINISHED |  |
| 11 | 1960-S |  | ROME Guest Chair, green | ROME GUEST CHAIR, GREEN |  | 0 |  | PCS | 0 | RESALE |  |
| 12 | 1964-S |  | TOKYO Guest Chair, blue | TOKYO GUEST CHAIR, BLUE |  | 0 |  | PCS | 0 | RESALE |  |
| 13 | 1964-W |  | INNSBRUCK Storage Unit/G.Door | INNSBRUCK STORAGE UNIT/G.DOOR |  | 1 |  | PCS | 0 | FINISHED |  |
| 14 | 1968-S |  | MEXICO Swivel Chair, black | MEXICO SWIVEL CHAIR, BLACK |  | 0 |  | PCS | 0 | RESALE |  |
| 15 | 1968-W |  | GRENOBLE Whiteboard, red | GRENOBLE WHITEBOARD, RED |  | 1 |  | PCS | 0 | FINISHED |  |
| 16 | 1972-S |  | MUNICH Swivel Chair, yellow | MUNICH SWIVEL CHAIR, YELLOW |  | 0 |  | PCS | 0 | RESALE |  |
| 17 | 1972-W |  | SAPPORO Whiteboard, black | SAPPORO WHITEBOARD, BLACK |  | 1 |  | PCS | 0 | FINISHED |  |
| 18 | 1976-W |  | INNSBRUCK Storage Unit/W.Door | INNSBRUCK STORAGE UNIT/W.DOOR |  | 1 |  | PCS | 0 | FINISHED |  |
| 19 | 1980-S |  | MOSCOW Swivel Chair, red | MOSCOW SWIVEL CHAIR, RED |  | 0 |  | PCS | 0 | RESALE |  |
| 20 | 1984-W |  | SARAJEVO Whiteboard, blue | SARAJEVO WHITEBOARD, BLUE |  | 1 |  | PCS | 0 | FINISHED |  |
| 21 | 1988-S |  | SEOUL Guest Chair, red | SEOUL GUEST CHAIR, RED |  | 0 |  | PCS | 0 | RESALE |  |
| 22 | 1988-W |  | CALGARY Whiteboard, yellow | CALGARY WHITEBOARD, YELLOW |  | 1 |  | PCS | 0 | FINISHED |  |
| 23 | 1992-W |  | ALBERTVILLE Whiteboard, green | ALBERTVILLE WHITEBOARD, GREEN |  | 1 |  | PCS | 0 | FINISHED |  |
| 24 | 1996-S |  | ATLANTA Whiteboard, base | ATLANTA WHITEBOARD, BASE |  | 0 |  | PCS | 0 | RESALE |  |
| 25 | 2000-S |  | SIDNEY Swivel Chair, green | SIDNEY SWIVEL CHAIR, GREEN |  | 0 |  | PCS | 0 | RESALE |  |
| 26 | 70000 |  | Side Panel | SIDE PANEL |  | 0 |  | PCS | 0 | RAW MAT |  |
| 27 | 70001 |  | Base | BASE |  | 0 |  | PCS | 0 | RAW MAT |  |
| 28 | 70002 |  | Top Panel | TOP PANEL |  | 0 |  | PCS | 0 | RAW MAT |  |
| 29 | 70003 |  | Rear Panel | REAR PANEL |  | 0 |  | PCS | 0 | RAW MAT |  |
| 30 | 70010 |  | Wooden Door | WOODEN DOOR |  | 0 |  | PCS | 0 | RAW MAT |  |
| 31 | 70011 |  | Glass Door | GLASS DOOR |  | 0 |  | PCS | 0 | RAW MAT |  |
| 32 | 70040 |  | Drawer | DRAWER |  | 0 |  | PCS | 0 | RAW MAT |  |
| 33 | 70041 |  | Shelf | SHELF |  | 0 |  | PCS | 0 | RAW MAT |  |
| 34 | 70060 |  | Mounting | MOUNTING |  | 0 |  | PCS | 0 | RAW MAT |  |
| 35 | 70100 |  | Paint, black | PAINT, BLACK |  | 0 |  | CAN | 0 | RAW MAT |  |
| 36 | 70101 |  | Paint, yellow | PAINT, YELLOW |  | 0 |  | CAN | 0 | RAW MAT |  |
| 37 | 70102 |  | Paint, blue | PAINT, BLUE |  | 0 |  | CAN | 0 | RAW MAT |  |
| 38 | 70103 |  | Paint, red | PAINT, RED |  | 0 |  | CAN | 0 | RAW MAT |  |
| 39 | 70104 |  | Paint, green | PAINT, GREEN |  | 0 |  | CAN | 0 | RAW MAT |  |
| 40 | 70200 |  | Hinge | HINGE |  | 0 |  | PCS | 0 | RAW MAT |  |
| 41 | 70201 |  | Doorknob | DOORKNOB |  | 0 |  | PCS | 0 | RAW MAT |  |
| 42 | 766BC-A |  | OLYMPIC Conference System | OLYMPIC CONFERENCE SYSTEM |  | 1 |  | PCS | 0 | FINISHED |  |
| 43 | 766BC-B |  | OLYMPIC Office System | OLYMPIC OFFICE SYSTEM |  | 1 |  | PCS | 0 | FINISHED |  |
| 44 | 766BC-C |  | OLYMPIC Storage System | OLYMPIC STORAGE SYSTEM |  | 1 |  | PCS | 0 | FINISHED |  |
| 45 | 80100 |  | Printing Paper | PRINTING PAPER |  | 0 |  | BOX | 0 | RESALE |  |

SELECT \*

FROM Item

ORDER BY 1

INTO TEMP zb\nf.SWItem

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Name** | **Search Name** | **Name 2** | **Address** | **Address 2** | **City** |
| 1 | 01254796 | Progressive Home Furnishings | PROGRESSIVE HOME FURNISHINGS |  | 222 Reagan Drive |  | Columbia |
| 2 | 01587796 | Custom Metals Incorporated | CUSTOM METALS INCORPORATED |  | 640 Nixon Blvd. |  | Birmingham |
| 3 | 01963656 | American Wood Exports | AMERICAN WOOD EXPORTS |  | 723 North Hampton Drive |  | New York |
| 4 | 10000 | London Postmaster | LONDON POSTMASTER |  | 10 North Lake Avenue |  | London |
| 5 | 20000 | AR Day Property Management | AR DAY PROPERTY MANAGEMENT |  | 100 Day Drive |  | Guildford |
| 6 | 30000 | CoolWood Technologies | COOLWOOD TECHNOLOGIES |  | 33 Hitech Drive |  | Portsmouth |
| 7 | 31147896 | Houtindustrie Bruynsma | HOUTINDUSTRIE BRUYNSMA |  | Havenweg 92 |  | Zaandam |
| 8 | 31568974 | Koekamp Leerindustrie | KOEKAMP LEERINDUSTRIE |  | Looiersdreef 19-27 |  | Waalwijk |
| 9 | 31580305 | Beekhuysen BV | BEEKHUYSEN BV |  | Mergelland 4 |  | Apeldoorn |
| 10 | 32456123 | BATIMETAL | BATIMETAL |  | Stationstraat 12 |  | Humbeek |
| 11 | 32554455 | PURE-LOOK | PURE-LOOK |  | Parklaan 3 |  | Mechelen |
| 12 | 32665544 | VELUX | VELUX |  | Boomgaardstraat 55 |  | Kortrijk |
| 13 | 34110257 | Importaciones S.A. | IMPORTACIONES S.A. |  | Av. Palmeras 5 |  | Alicante |
| 14 | 34151086 | Subacqua | SUBACQUA |  | c/ Neptuno 18 |  | Salamanca |
| 15 | 34280789 | Transporte Roas | TRANSPORTE ROAS |  | Pol. Ind. 4 |  | Palma Mallorca |
| 16 | 35225588 | Husplast HF | HUSPLAST HF |  | Dalvegi 24 |  | Reykjavik |
| 17 | 35336699 | Hurdir HF | HURDIR HF |  | Skeifunni 13 |  | Reykjavik |
| 18 | 35741852 | Huslagnir | HUSLAGNIR |  | Rangarseli 20 |  | Reykjavik |
| 19 | 38458653 | IVERKA POHISTVO d.o.o. | IVERKA POHISTVO D.O.O. |  | Industrijska c.15 |  | Kranj |
| 20 | 38521479 | MASIVA d.o.o. | MASIVA D.O.O. |  | Ferkova ulica4 |  | Kranj |
| 21 | 38654478 | POIIORLES d.d. | POIIORLES D.D. |  | Cankarjeva 17 |  | Maribor |
| 22 | 40000 | Lewis Home Furniture | LEWIS HOME FURNITURE |  | 51 Radcroft Road |  | Gainsborough |
| 23 | 41124089 | Flückiger AG | FLÜCKIGER AG |  | Erlenstrasse 5 |  | Immensee |
| 24 | 41483124 | Matter Transporte | MATTER TRANSPORTE |  | Industrie |  | Pratteln |
| 25 | 41568934 | Schreinerei Peter | SCHREINEREI PETER |  | Seedamm 18 |  | Rotkreuz |
| 26 | 42125678 | UP Ostrov s.p. | UP OSTROV S.P. |  | Mayerova 12 |  | Olomouch |
| 27 | 42784512 | TON s.r.o. | TON S.R.O. |  | Krausova 125 |  | Kyjov |
| 28 | 42895623 | Mach & spol. v.o.s. | MACH & SPOL. V.O.S. |  | T.G. Masaryka 15 |  | Blansko |
| 29 | 43258545 | Sägewerk Mittersill | SÄGEWERK MITTERSILL |  | Ortstraße 12 |  | Mittersill |
| 30 | 43589632 | Paul Brettschneider KG | PAUL BRETTSCHNEIDER KG |  | Am Bahndamm 68 |  | Murau |
| 31 | 43698547 | Beschläge Schacherhuber | BESCHLÄGE SCHACHERHUBER |  | Fabrikstraße 24 |  | Wien |
| 32 | 44127904 | WoodMart Supply Co. | WOODMART SUPPLY CO. |  | 12 Industrial Heights |  | Stratford |
| 33 | 44127914 | Mortimor Car Company | MORTIMOR CAR COMPANY |  | 43 Industrial Heights |  | Stratford |
| 34 | 44729910 | Tool Mart | TOOL MART |  | 8 Grovenors Park |  | London |
| 35 | 44756404 | Furniture Industries | FURNITURE INDUSTRIES |  | 23 Charington Cresent |  | Edinburgh |
| 36 | 45774477 | Fredborg Lamper A/S | FREDBORG LAMPER A/S |  | Nyborgvej 566 |  | Odense C |
| 37 | 45858585 | Elvstrøm Træindustri A/S | ELVSTRØM TRÆINDUSTRI A/S |  | Havnevej 6 |  | Køge |
| 38 | 45868686 | Schmeichel Møbler A/S | SCHMEICHEL MØBLER A/S |  | Ndr. Frihavnsgade 45 |  | København Ø |
| 39 | 46558855 | Kinnareds Träindustri AB | KINNAREDS TRÄINDUSTRI AB |  | Stordal Torslunda |  | Kinnared |
| 40 | 46635241 | Viksjö Snickerifabrik AB | VIKSJÖ SNICKERIFABRIK AB |  | Sjöhagsgatan 7 |  | Sundsvall |
| 41 | 46895623 | Svensk Möbeltextil AB | SVENSK MÖBELTEXTIL AB |  | Nyängsvägen 14 |  | Göteborg |
| 42 | 47521478 | Møbelhuset AS | MØBELHUSET AS |  | Vivendelveien 17 |  | Ski |
| 43 | 47562214 | Stilmøbler as | STILMØBLER AS |  | Thv. Meyersgt. 34 |  | Oslo |
| 44 | 47586622 | Furumøbler A/S | FURUMØBLER A/S |  | Østensjøveien 27 |  | Oslo |
| 45 | 49454647 | VAG - Jürgensen | VAG - JÜRGENSEN |  | Süderweg 15 |  | Hamburg |
| 46 | 49494949 | KKA Büromaschinen Gmbh | KKA BÜROMASCHINEN GMBH |  | Immermannstraße 92 |  | Landsberg am Lech |
| 47 | 49989898 | JB-Spedition | JB-SPEDITION |  | Grünfahrtsweg 20 |  | München |
| 48 | 50000 | Service Electronics Ltd. | SERVICE ELECTRONICS LTD. |  | 172 Field Green |  | Watford |

SELECT \*

FROM Vendor

ORDER BY 1

INTO TEMP zc\nf.SWVendor

# 9.1. Getting CURSOR name

Cursors are named, the name can be retrieved by SQLGetCursorName:

|  |  |
| --- | --- |
|  | **Cursorname** |
| 1 | SQL\_CUR00001 |

SQLGetCursorName(hstmt,cursorname,256,&len)

And the cursor name can be set by SQLSetCursorName before the SELECT is done.

# 9.2. Setting CURSOR name

*Query executed - No results returned.*

SQLSetCursorName(hstmt,"mycursor",SQL\_NTS)

The select for UPDATE is implemented. Note both files may be updated.

# 9.3. SELECT for UPDATE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Unit Price** | **Vendor No\_** | **Ven** |
| 1 | 1896-S | ATHENS Desk | 0 | 30000 | 30000 |
| 2 | 1900-S | PARIS Guest Chair, black | 0 | 20000 | 20000 |
| 3 | 1906-S | ATHENS Mobile Pedestal | 0 | 30000 | 30000 |
| 4 | 1908-S | LONDON Swivel Chair, blue | 0 | 30000 | 30000 |
| 5 | 1920-S | ANTWERP Conference Table | 0 | 20000 | 20000 |
| 6 | 1924-W | CHAMONIX Base Storage Unit | 0 | 20000 | 20000 |
| 7 | 1928-S | AMSTERDAM Lamp | 0 | 10000 | 10000 |
| 8 | 1928-W | ST.MORITZ Storage Unit/Drawers | 0 |  |  |
| 9 | 1936-S | BERLIN Guest Chair, yellow | 0 | 20000 | 20000 |
| 10 | 1952-W | OSLO Storage Unit/Shelf | 0 |  |  |
| 11 | 1960-S | ROME Guest Chair, green | 0 | 20000 | 20000 |
| 12 | 1964-S | TOKYO Guest Chair, blue | 0 | 20000 | 20000 |
| 13 | 1964-W | INNSBRUCK Storage Unit/G.Door | 0 |  |  |
| 14 | 1968-S | MEXICO Swivel Chair, black | 0 | 30000 | 30000 |
| 15 | 1968-W | GRENOBLE Whiteboard, red | 0 |  |  |
| 16 | 1972-S | MUNICH Swivel Chair, yellow | 0 | 30000 | 30000 |
| 17 | 1972-W | SAPPORO Whiteboard, black | 0 |  |  |
| 18 | 1976-W | INNSBRUCK Storage Unit/W.Door | 0 |  |  |
| 19 | 1980-S | MOSCOW Swivel Chair, red | 0 | 30000 | 30000 |
| 20 | 1984-W | SARAJEVO Whiteboard, blue | 0 |  |  |
| 21 | 1988-S | SEOUL Guest Chair, red | 0 | 20000 | 20000 |
| 22 | 1988-W | CALGARY Whiteboard, yellow | 0 |  |  |
| 23 | 1992-W | ALBERTVILLE Whiteboard, green | 0 |  |  |
| 24 | 1996-S | ATLANTA Whiteboard, base | 0 | 30000 | 30000 |
| 25 | 2000-S | SIDNEY Swivel Chair, green | 0 | 30000 | 30000 |
| 26 | 70000 | Side Panel | 0 | 10000 | 10000 |
| 27 | 70001 | Base | 0 | 10000 | 10000 |
| 28 | 70002 | Top Panel | 0 | 10000 | 10000 |
| 29 | 70003 | Rear Panel | 0 | 10000 | 10000 |
| 30 | 70010 | Wooden Door | 0 | 10000 | 10000 |
| 31 | 70011 | Glass Door | 0 | 10000 | 10000 |
| 32 | 70040 | Drawer | 0 | 10000 | 10000 |
| 33 | 70041 | Shelf | 0 | 10000 | 10000 |
| 34 | 70060 | Mounting | 0 | 32456123 | 32456123 |
| 35 | 70100 | Paint, black | 0 | 20000 | 20000 |
| 36 | 70101 | Paint, yellow | 0 | 20000 | 20000 |
| 37 | 70102 | Paint, blue | 0 | 20000 | 20000 |
| 38 | 70103 | Paint, red | 0 | 20000 | 20000 |
| 39 | 70104 | Paint, green | 0 | 20000 | 20000 |
| 40 | 70200 | Hinge | 0 | 10000 | 10000 |
| 41 | 70201 | Doorknob | 0 | 10000 | 10000 |
| 42 | 766BC-A | OLYMPIC Conference System | 0 |  |  |
| 43 | 766BC-B | OLYMPIC Office System | 0 |  |  |
| 44 | 766BC-C | OLYMPIC Storage System | 0 |  |  |
| 45 | 80100 | Printing Paper | 0 | 46558855 | 46558855 |

SELECT No\_, Description, 'Unit Price', 'Vendor No\_', a.No\_ Ven

FROM SWItem, OUTER SWVendor a

WHERE a.No\_ = 'Vendor No\_'

FOR UPDATE OF 'Unit Price'

As an extension to the SQL for these examples, the cursor can be positioned using **SELECT ... WHERE CURRENT OF cursorname = rownumber**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Unit Price** | **Vendor No\_** |
| 1 | 1924-W | CHAMONIX Base Storage Unit | 0 | 20000 |

SELECT No\_, Description, 'Unit Price', 'Vendor No\_'

FROM SWItem

WHERE CURRENT OF mycursor=6

*Query executed - No results returned.*

UPDATE SWItem

SET 'Unit Price' = 'Unit Price' + 200

WHERE CURRENT OF mycursor

# 9.4. SELECT from cursor

The result may be retrieved again by the extension select

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Unit Price** | **Vendor No\_** |
| 1 | 1924-W | CHAMONIX Base Storage Unit | 200 | 20000 |

SELECT No\_, Description, 'Unit Price', 'Vendor No\_'

FROM SWItem

WHERE CURRENT OF mycursor

Also rows from joined tables may be used in positioned update

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Name** | **Balance** |
| 1 | 30000 |  | 0 |

SELECT No\_, Name, Balance

FROM SWVendor

WHERE CURRENT OF mycursor=3

FOR UPDATE

# 9.5. DELETE from cursor

The positioned delete can be done:

*Query executed - No results returned.*

DELETE FROM SWItem

WHERE CURRENT OF mycursor=3

The FOR UPDATE may be given without fields if only DELETE should follow

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Vendor No\_** | **Unit Price** |
| 1 | 1896-S | 30000 | 0 |
| 2 | 1900-S | 20000 | 0 |
| 3 | 1908-S | 30000 | 0 |
| 4 | 1920-S | 20000 | 0 |
| 5 | 1924-W | 20000 | 200 |
| 6 | 1928-S | 10000 | 0 |
| 7 | 1928-W |  | 0 |
| 8 | 1936-S | 20000 | 0 |
| 9 | 1952-W |  | 0 |
| 10 | 1960-S | 20000 | 0 |
| 11 | 1964-S | 20000 | 0 |
| 12 | 1964-W |  | 0 |
| 13 | 1968-S | 30000 | 0 |
| 14 | 1968-W |  | 0 |
| 15 | 1972-S | 30000 | 0 |
| 16 | 1972-W |  | 0 |
| 17 | 1976-W |  | 0 |
| 18 | 1980-S | 30000 | 0 |
| 19 | 1984-W |  | 0 |
| 20 | 1988-S | 20000 | 0 |
| 21 | 1988-W |  | 0 |
| 22 | 1992-W |  | 0 |
| 23 | 1996-S | 30000 | 0 |
| 24 | 2000-S | 30000 | 0 |
| 25 | 70000 | 10000 | 0 |
| 26 | 70001 | 10000 | 0 |
| 27 | 70002 | 10000 | 0 |
| 28 | 70003 | 10000 | 0 |
| 29 | 70010 | 10000 | 0 |
| 30 | 70011 | 10000 | 0 |
| 31 | 70040 | 10000 | 0 |
| 32 | 70041 | 10000 | 0 |
| 33 | 70060 | 32456123 | 0 |
| 34 | 70100 | 20000 | 0 |
| 35 | 70101 | 20000 | 0 |
| 36 | 70102 | 20000 | 0 |
| 37 | 70103 | 20000 | 0 |
| 38 | 70104 | 20000 | 0 |
| 39 | 70200 | 10000 | 0 |
| 40 | 70201 | 10000 | 0 |
| 41 | 766BC-A |  | 0 |
| 42 | 766BC-B |  | 0 |
| 43 | 766BC-C |  | 0 |
| 44 | 80100 | 46558855 | 0 |

SELECT No\_, 'Vendor No\_', 'Unit Price'

FROM SWItem

FOR UPDATE

*Query executed - No results returned.*

DELETE FROM SWItem

WHERE CURRENT OF mycursor

|  |  |  |  |
| --- | --- | --- | --- |
|  | **No\_** | **Description** | **Unit Price** |
| 1 | 1896-S | ATHENS Desk | 0 |
| 2 | 1900-S | PARIS Guest Chair, black | 0 |
| 3 | 1908-S | LONDON Swivel Chair, blue | 0 |
| 4 | 1920-S | ANTWERP Conference Table | 0 |
| 5 | 1924-W | CHAMONIX Base Storage Unit | 200 |
| 6 | 1928-S | AMSTERDAM Lamp | 0 |
| 7 | 1928-W | ST.MORITZ Storage Unit/Drawers | 0 |
| 8 | 1936-S | BERLIN Guest Chair, yellow | 0 |
| 9 | 1952-W | OSLO Storage Unit/Shelf | 0 |
| 10 | 1960-S | ROME Guest Chair, green | 0 |
| 11 | 1964-S | TOKYO Guest Chair, blue | 0 |
| 12 | 1964-W | INNSBRUCK Storage Unit/G.Door | 0 |
| 13 | 1968-S | MEXICO Swivel Chair, black | 0 |
| 14 | 1968-W | GRENOBLE Whiteboard, red | 0 |
| 15 | 1972-S | MUNICH Swivel Chair, yellow | 0 |
| 16 | 1972-W | SAPPORO Whiteboard, black | 0 |
| 17 | 1976-W | INNSBRUCK Storage Unit/W.Door | 0 |
| 18 | 1980-S | MOSCOW Swivel Chair, red | 0 |
| 19 | 1984-W | SARAJEVO Whiteboard, blue | 0 |
| 20 | 1988-S | SEOUL Guest Chair, red | 0 |
| 21 | 1988-W | CALGARY Whiteboard, yellow | 0 |
| 22 | 1992-W | ALBERTVILLE Whiteboard, green | 0 |
| 23 | 1996-S | ATLANTA Whiteboard, base | 0 |
| 24 | 2000-S | SIDNEY Swivel Chair, green | 0 |
| 25 | 70000 | Side Panel | 0 |
| 26 | 70001 | Base | 0 |
| 27 | 70002 | Top Panel | 0 |
| 28 | 70003 | Rear Panel | 0 |
| 29 | 70010 | Wooden Door | 0 |
| 30 | 70011 | Glass Door | 0 |
| 31 | 70040 | Drawer | 0 |
| 32 | 70041 | Shelf | 0 |
| 33 | 70060 | Mounting | 0 |
| 34 | 70100 | Paint, black | 0 |
| 35 | 70101 | Paint, yellow | 0 |
| 36 | 70102 | Paint, blue | 0 |
| 37 | 70103 | Paint, red | 0 |
| 38 | 70104 | Paint, green | 0 |
| 39 | 70200 | Hinge | 0 |
| 40 | 70201 | Doorknob | 0 |
| 41 | 766BC-A | OLYMPIC Conference System | 0 |
| 42 | 766BC-B | OLYMPIC Office System | 0 |
| 43 | 766BC-C | OLYMPIC Storage System | 0 |

SELECT No\_, Description, 'Unit Price'

FROM SWItem

# 10. Views

A view may be created defining a select

*Query executed - No results returned.*

CREATE VIEW myview (A,B,C)

AS (SELECT No\_, Description, 'Unit Price' FROM Item WHERE 'Unit Price' > 0)

Selecting fields from a view first executes the defined select. The table definition but not the table itself exists. A view cannot be updated.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **A** | **B** | **C** |
| 1 | 1896-S | ATHENS Desk | 649.4 |
| 2 | 1906-S | ATHENS Mobile Pedestal | 281.4 |
| 3 | 1920-S | ANTWERP Conference Table | 420.4 |
| 4 | 1928-W | ST.MORITZ Storage Unit/Drawers | 342.1 |
| 5 | 1964-W | INNSBRUCK Storage Unit/G.Door | 292 |
| 6 | 1968-W | GRENOBLE Whiteboard, red | 974.8 |
| 7 | 1972-W | SAPPORO Whiteboard, black | 974.8 |
| 8 | 1976-W | INNSBRUCK Storage Unit/W.Door | 256.1 |
| 9 | 1984-W | SARAJEVO Whiteboard, blue | 974.8 |
| 10 | 1988-W | CALGARY Whiteboard, yellow | 974.8 |
| 11 | 1992-W | ALBERTVILLE Whiteboard, green | 974.8 |
| 12 | 1996-S | ATLANTA Whiteboard, base | 906.7 |
| 13 | 766BC-A | OLYMPIC Conference System | 5413.80034 |
| 14 | 766BC-B | OLYMPIC Office System | 1787.5999 |
| 15 | 766BC-C | OLYMPIC Storage System | 944.59998 |

SELECT \*

FROM myview

WHERE C > 200

The view may be removed afterwards:

*Query executed - No results returned.*

DROP VIEW myview

# 11. Create / Alter and Rename tables

The CREATE/ALTER TABLE has the following extensions to the standard SQL:

a. Table name can be given as described for SELECT...INTO

b. Field formats may be given including Pack options/Bytes etc.

c. PRIMARY KEY may specify SWTools key syntax using fieldnumbers

# 11.1. How to create tables

*Query executed - No results returned.*

CREATE TABLE mytable (no SHORT(4),

name CHAR(20),

balance NUMERIC(8,2),

PRIMARY KEY (name ASC,no DESC))

*Query executed - No results returned.*

CREATE TABLE 'yourtable' ('no a' SHORT ( 4 ) UNIQUE,

'name b' CHAR ( 20 ) ,

balance DECIMAL ( 8 , 2 ) )

*Query executed - No results returned.*

CREATE TABLE sometable (no LONG ,

name CHAR(20),

PRIMARY KEY(#1,#2,NP))

Index can be created and dropped again

*Query executed - No results returned.*

CREATE UNIQUE INDEX abcdef ON mytable (no ASC,name DESC)

*Query executed - No results returned.*

DROP INDEX mytable.abcdef

# 11.2. ALTER table definition

The ALTER TABLE supports ADD,DROP and MODIFY of columns

*Query executed - No results returned.*

ALTER TABLE mytable ADD (date NUMERIC(,8,2P7),code CHAR(13)),

DROP COLUMN balance,name,

MODIFY no NUMERIC

A table CANNOT BE RENAMED because C/FRONT does not support it!

RENAME TABLE mytable TO agoodtable

# 12. Data types

The below mentioned data types returned by SQLGetTypeInfo are valid. The use of NULL values are resticted due to the file systems involved.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TYPE\_NAME** | **DATA** | **PRECI** | **LPRE** | **LSUF** | **CREATE\_PARAMS** | **NUL** | **CAS** | **SEA** | **UNS** | **MO** | **AUTO** | **LOC** | **MIN** | **MAX** |
| 1 | CHAR | 1 | 254 | " | " | MAX LENGTH | 0 | 1 | 3 | NUL | 0 | NULL | NUL | NUL | NUL |
| 2 | NUMERIC | 8 | 15 | NULL | NULL | PRECISION,SCALE | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 9 |
| 3 | DECIMAL | 8 | 15 | NULL | NULL | PRECISION,SCALE | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 9 |
| 4 | LONG | 4 | 10 | NULL | NULL | PRECISION | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 0 |
| 5 | SHORT | 5 | 5 | NULL | NULL | PRECISION | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 0 |
| 6 | FLOAT | 8 | 15 | NULL | NULL | PRECISION,SCALE | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 9 |
| 7 | REAL | 8 | 15 | NULL | NULL | PRECISION,SCALE | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 9 |
| 8 | DOUBLE | 8 | 15 | NULL | NULL | PRECISION,SCALE | 0 | 0 | 2 | 0 | 0 | 0 | NUL | 0 | 9 |
| 9 | DATE | 9 | 10 | # | # | NULL | 1 | 0 | 2 | NUL | 0 | NULL | NUL | NUL | NUL |
| 10 | TIME | 10 | 8 | # | # | NULL | 1 | 0 | 2 | NUL | 0 | NULL | NUL | NUL | NUL |
| 11 | TIMESTAMP | 11 | 19 | # | # | NULL | 1 | 0 | 2 | NUL | 0 | NULL | NUL | NUL | NUL |
| 12 | VARCHAR | 12 | 1024 | " | " | MAX LENGTH | 0 | 1 | 3 | NUL | 0 | NULL | NUL | NUL | NUL |

SQLGetTypeInfo(hstmt,SQL\_ALL\_TYPES)

Fieldnames are taken from the Data-Dictionary SQLnames, if these are not present the normal fieldname is used, ' \ . and " will be replaced by space. In case of duplicate fieldnames 1 is added to the last character in the name. Fields without name or format definitions is omitted.

A description for the **'Payment Terms'** table comes like:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **QUALI** | **OWNER** | **TABLE\_NAME** | **COLUMN\_NAME** | **TYPE** | **TYPE\_NAME** | **PREC** | **LEN** | **SCALE** | **RADIX** | **NULL** | **REMARKS** |
| 1 | NULL | NULL | Payment Te | Code | 12 | VARCHAR | 10 | 10 | 0 | NULL | 0 | NULL |
| 2 | NULL | NULL | Payment Te | Due Date Ca | 12 | VARCHAR | 20 | 20 | 0 | NULL | 0 | NULL |
| 3 | NULL | NULL | Payment Te | Discount Da | 12 | VARCHAR | 20 | 20 | 0 | NULL | 0 | NULL |
| 4 | NULL | NULL | Payment Te | Discount % | 8 | DOUBLE | 11 | 8 | 2 | 10 | 0 | NULL |
| 5 | NULL | NULL | Payment Te | Description | 12 | VARCHAR | 50 | 50 | 0 | NULL | 0 | NULL |

SQLColumns(hstmt,NULL,0,NULL,0,"Payment Terms",SQL\_NTS,NULL,0)

After a SELECT SQLDescribeCol may look like the following:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Code** | **Due Date Calculation** | **Discount Date Calculati** | **Discount %** | **Description** |
| 1 | CM | CM |  | 0 | Current month |
| 2 | COD | 0D |  | 0 | Cash on delivery |

SELECT \*

FROM 'Payment Terms'

WHERE Description LIKE("C%")

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name** | **SQL-Type** | **Precision** | **Scale** | **Nullable** |
| 1 | Code | 12 SQL\_VARCHAR | 10 | 0 | 0 |
| 2 | Due Date Calculation | 12 SQL\_VARCHAR | 20 | 0 | 0 |
| 3 | Discount Date Calculatio | 12 SQL\_VARCHAR | 20 | 0 | 0 |
| 4 | Discount % | 8 SQL\_DOUBLE | 11 | 2 | 0 |
| 5 | Description | 12 SQL\_VARCHAR | 50 | 0 | 0 |

SQLDescribeCol(hstmt,\*,name,256,&len,&type,&precision,&scale,&nullable)

And the more detailed column attributes:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Aut** | **Cas** | **Cou** | **Siz** | **Label** | **Len** | **M** | **Name** | **Nul** | **Own** | **Prec** | **Qua** | **Sca** | **Sea** | **Tab** | **Typ** | **Typname** | **Uns** | **Updat** |
| 1 | 0 | 1 | 5 | 10 | Code | 10 | 0 | Code | 0 |  | 10 |  | 0 | 3 |  | 12 | VARCHAR | 1 | 1 |
| 2 | 0 | 1 | 5 | 20 | Due D | 20 | 0 | Due D | 0 |  | 20 |  | 0 | 3 |  | 12 | VARCHAR | 1 | 1 |
| 3 | 0 | 1 | 5 | 20 | Disco | 20 | 0 | Disco | 0 |  | 20 |  | 0 | 3 |  | 12 | VARCHAR | 1 | 1 |
| 4 | 0 | 0 | 5 | 15 | Disco | 8 | 0 | Disco | 0 |  | 11 |  | 2 | 2 |  | 8 | DOUBLE | 0 | 1 |
| 5 | 0 | 1 | 5 | 50 | Descr | 50 | 0 | Descr | 0 |  | 50 |  | 0 | 3 |  | 12 | VARCHAR | 1 | 1 |

SQLColAttributes(hstmt,\*,\*,info,256,&len,&val)

The SQLSpecialColumns gives the best access key to the table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SCOPE** | **COLUMN\_NAME** | **DATA\_TYPE** | **TYPE\_NAME** | **PREC** | **LEN** | **SCALE** | **PSEUDO** |
| 1 | 1 | Code | 0 | 12 | 0 | 10 | 10 | 1 |

SQLSpecialColumns(hstmt,SQL\_BEST\_ROWID,

NULL,0,NULL,0,"Payment Terms",SQL\_NTS,

SQL\_SCOPE\_CURROW,SQL\_NULLABLE)

Whereas SQLStatistics provides information of the table and the single keyparts

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **QUALI** | **OWNER** | **TABLE\_NAME** | **UNI** | **XQUALI** | **INDEX\_NAME** | **TYP** | **SEQ** | **COLUMN\_NAME** | **COL** | **CAR** | **PAGES** | **FIL** |
| 1 | NULL | NULL | Payment Te | NUL | Paymen | NULL | 0 | NUL | NULL | NUL | 0 | 0 | NUL |
| 2 | NULL | NULL | Payment Te | 0 | Paymen | INDEX01 | 3 | 1 | Code | A | 0 | 0 | NUL |

SQLStatistics(hstmt,NULL,0,NULL,0,"Payment Terms",SQL\_NTS,SQL\_INDEX\_ALL,SQL\_ENSURE)

Note: SQL\_ENSURE is required to get the correct values of Cardinality and pages. For TABLE\_STAT Cardinality is total number of records, Pages the files size in KB. For INDEX Cardinality is also total number of records, Pages the index size in KB.

# 13. Table types, names, Owners and Qualifiers

The table names is decided from the FNAME= and the FNAMELEN= parameters stated in ODBC.INI for the data source or given in the connection string to SQLDriverConnect. \* marks the default.

FNAME=n How to use table names

0 File ID is always used

1 \* If SID is filled, use the first 11 characters of this else same as

2 Use reduced FILENAME according to following rules:

a. Start from first alpha character in the name

b. If spaces is present, start after the last space found

c. If : \ or / is present, start after the last of these

d. If name becomes XX.xxx, remove XX.

e. If name ends with abc, remove abc.

3 Use FILETEXT as tablename until first non-alphanumeric character.

4 Use FILETEXT as tablename

FNAMELEN=n Length of Table name

0 No restrictions on tablename

1 \* Tablename is delimited by the first occurence of a space

>2 Tablename will be of maximum this size.

The characters \ . ' and " in any file- or fieldname will be replaced by space as not all database programs is able to handle these.

If the tablename becomes invalid or if a duplicate name is found the ID is used.

The table informations also uses the following:

OWNER=n Usage of owners

0 No owners, NULL is returned

1 \* Use file typename as owner

2 Use file ID as owner

QUALIFIER=n Usage of file qualifiers

0 No qualifiers, NULL is returned

1\* Use file ID as qualifier

2 Use file typename as qualifier

FTEXT=n Usage of file text description

0 \* The file text is used

1 Filename

2 Filename + File text

3 File ID + Filename + File text

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 | NULL | NULL | Systemfields | SYSTEM TABLE | Systemfields |
| 2 | NULL | NULL | Acc Sched Cell V | TABLE | Acc. Sched. Cell Value |
| 3 | NULL | NULL | Acc Sched Column | TABLE | Acc. Sched. Column |
| 4 | NULL | NULL | Acc Sched Column | TABLE | Acc. Sched. Column Layout Name |
| 5 | NULL | NULL | Acc Schedule Lin | TABLE | Acc. Schedule Line |
| 6 | NULL | NULL | Acc Schedule Nam | TABLE | Acc. Schedule Name |
| 7 | NULL | NULL | Accounting Perio | TABLE | Accounting Period |
| 8 | NULL | NULL | Activity | TABLE | Activity |
| 9 | NULL | NULL | Activity Type | TABLE | Activity Type |
| 10 | NULL | NULL | Adjust Exchange | TABLE | Adjust Exchange Rate Buffer |
| 11 | NULL | NULL | AllObj | TABLE | AllObj |
| 12 | NULL | NULL | Alternative Addr | TABLE | Alternative Address |
| 13 | NULL | NULL | Application Area | TABLE | Application Area Line |
| 14 | NULL | NULL | Area | TABLE | Area |
| 15 | NULL | NULL | Automation Serve | TABLE | Automation Servers |
| 16 | NULL | NULL | BOM Component | TABLE | BOM Component |
| 17 | NULL | NULL | BOM Journal Batc | TABLE | BOM Journal Batch |
| 18 | NULL | NULL | BOM Journal Line | TABLE | BOM Journal Line |
| 19 | NULL | NULL | BOM Journal Temp | TABLE | BOM Journal Template |
| 20 | NULL | NULL | BOM Ledger Entry | TABLE | BOM Ledger Entry |
| 21 | NULL | NULL | BOM Register | TABLE | BOM Register |
| 22 | NULL | NULL | Bank Acc Reconci | TABLE | Bank Acc. Reconciliation |
| 23 | NULL | NULL | Bank Acc Reconci | TABLE | Bank Acc. Reconciliation Line |
| 24 | NULL | NULL | Bank Account | TABLE | Bank Account |
| 25 | NULL | NULL | Bank Account Led | TABLE | Bank Account Ledger Entry |
| 26 | NULL | NULL | Bank Account Pos | TABLE | Bank Account Posting Group |
| 27 | NULL | NULL | Bank Account Sta | TABLE | Bank Account Statement |
| 28 | NULL | NULL | Bank Account Sta | TABLE | Bank Account Statement Line |
| 29 | NULL | NULL | Bin | TABLE | Bin |
| 30 | NULL | NULL | Business Unit | TABLE | Business Unit |
| 31 | NULL | NULL | Campaign | TABLE | Campaign |
| 32 | NULL | NULL | Campaign Line | TABLE | Campaign Line |
| 33 | NULL | NULL | Cause of Absence | TABLE | Cause of Absence |
| 34 | NULL | NULL | Cause of Inactiv | TABLE | Cause of Inactivity |
| 35 | NULL | NULL | Cheque Ledger En | TABLE | Cheque Ledger Entry |
| 36 | NULL | NULL | Close Income Sta | TABLE | Close Income Statement Buffer |
| 37 | NULL | NULL | Comment Line | TABLE | Comment Line |
| 38 | NULL | NULL | Commodity Code | TABLE | Commodity Code |
| 39 | NULL | NULL | Company | TABLE | Company |
| 40 | NULL | NULL | Company Informat | TABLE | Company Information |
| 41 | NULL | NULL | Confidential | TABLE | Confidential |
| 42 | NULL | NULL | Confidential Inf | TABLE | Confidential Information |
| 43 | NULL | NULL | Cont Mgt Comment | TABLE | Cont. Mgt. Comment Line |
| 44 | NULL | NULL | Contact | TABLE | Contact |
| 45 | NULL | NULL | Contact Job Resp | TABLE | Contact Job Responsibility |
| 46 | NULL | NULL | Contact Manageme | TABLE | Contact Management Setup |
| 47 | NULL | NULL | Country | TABLE | Country |
| 48 | NULL | NULL | Currency | TABLE | Currency |
| 49 | NULL | NULL | Currency Exchang | TABLE | Currency Exchange Rate |
| 50 | NULL | NULL | Currency Total B | TABLE | Currency Total Buffer |
| 51 | NULL | NULL | Currency for Fin | TABLE | Currency for Fin. Charge Terms |
| 52 | NULL | NULL | Currency for Rem | TABLE | Currency for Reminder Level |
| 53 | NULL | NULL | Cust Invoice Dis | TABLE | Cust. Invoice Disc. |
| 54 | NULL | NULL | Cust Ledger Entr | TABLE | Cust. Ledger Entry |
| 55 | NULL | NULL | Cust/Item Discou | TABLE | Cust./Item Discount |
| 56 | NULL | NULL | Customer | TABLE | Customer |
| 57 | NULL | NULL | Customer Amount | TABLE | Customer Amount |
| 58 | NULL | NULL | Customer Bank Ac | TABLE | Customer Bank Account |
| 59 | NULL | NULL | Customer Discoun | TABLE | Customer Discount Group |
| 60 | NULL | NULL | Customer Posting | TABLE | Customer Posting Group |
| 61 | NULL | NULL | Database File | TABLE | Database File |
| 62 | NULL | NULL | Database Key Gro | TABLE | Database Key Groups |
| 63 | NULL | NULL | Date | TABLE | Date |
| 64 | NULL | NULL | Date Compr Regis | TABLE | Date Compr. Register |
| 65 | NULL | NULL | Department | TABLE | Department |
| 66 | NULL | NULL | Depreciation Boo | TABLE | Depreciation Book |
| 67 | NULL | NULL | Depreciation Tab | TABLE | Depreciation Table Buffer |
| 68 | NULL | NULL | Depreciation Tab | TABLE | Depreciation Table Header |
| 69 | NULL | NULL | Depreciation Tab | TABLE | Depreciation Table Line |
| 70 | NULL | NULL | Document Entry | TABLE | Document Entry |
| 71 | NULL | NULL | Drive | TABLE | Drive |
| 72 | NULL | NULL | Drop Shpt Post B | TABLE | Drop Shpt. Post. Buffer |
| 73 | NULL | NULL | Employee | TABLE | Employee |
| 74 | NULL | NULL | Employee Absence | TABLE | Employee Absence |
| 75 | NULL | NULL | Employee Qualifi | TABLE | Employee Qualification |
| 76 | NULL | NULL | Employee Relativ | TABLE | Employee Relative |
| 77 | NULL | NULL | Employee Statist | TABLE | Employee Statistics Group |
| 78 | NULL | NULL | Employment Contr | TABLE | Employment Contract |
| 79 | NULL | NULL | Entry Summary | TABLE | Entry Summary |
| 80 | NULL | NULL | Entry/Exit Point | TABLE | Entry/Exit Point |
| 81 | NULL | NULL | Exch Rate Adjmt | TABLE | Exch. Rate Adjmt. Reg. |
| 82 | NULL | NULL | Extended Text He | TABLE | Extended Text Header |
| 83 | NULL | NULL | Extended Text Li | TABLE | Extended Text Line |
| 84 | NULL | NULL | FA Allocation | TABLE | FA Allocation |
| 85 | NULL | NULL | FA Buffer Projec | TABLE | FA Buffer Projection |
| 86 | NULL | NULL | FA Class | TABLE | FA Class |
| 87 | NULL | NULL | FA Date Type | TABLE | FA Date Type |
| 88 | NULL | NULL | FA Depreciation | TABLE | FA Depreciation Book |
| 89 | NULL | NULL | FA G/L Posting B | TABLE | FA G/L Posting Buffer |
| 90 | NULL | NULL | FA Journal Batch | TABLE | FA Journal Batch |
| 91 | NULL | NULL | FA Journal Line | TABLE | FA Journal Line |
| 92 | NULL | NULL | FA Journal Setup | TABLE | FA Journal Setup |
| 93 | NULL | NULL | FA Journal Templ | TABLE | FA Journal Template |
| 94 | NULL | NULL | FA Ledger Entry | TABLE | FA Ledger Entry |
| 95 | NULL | NULL | FA Location | TABLE | FA Location |
| 96 | NULL | NULL | FA Matrix Postin | TABLE | FA Matrix Posting Type |
| 97 | NULL | NULL | FA Posting Group | TABLE | FA Posting Group |
| 98 | NULL | NULL | FA Posting Type | TABLE | FA Posting Type |
| 99 | NULL | NULL | FA Posting Type | TABLE | FA Posting Type Setup |
| 100 | NULL | NULL | FA Reclass Journ | TABLE | FA Reclass. Journal Batch |
| 101 | NULL | NULL | FA Reclass Journ | TABLE | FA Reclass. Journal Line |
| 102 | NULL | NULL | FA Reclass Journ | TABLE | FA Reclass. Journal Template |
| 103 | NULL | NULL | FA Register | TABLE | FA Register |
| 104 | NULL | NULL | FA Setup | TABLE | FA Setup |
| 105 | NULL | NULL | FA Subclass | TABLE | FA Subclass |
| 106 | NULL | NULL | Field | TABLE | Field |
| 107 | NULL | NULL | File | TABLE | File |
| 108 | NULL | NULL | Fin Charge Comme | TABLE | Fin. Charge Comment Line |
| 109 | NULL | NULL | Finance Charge M | TABLE | Finance Charge Memo Header |
| 110 | NULL | NULL | Finance Charge M | TABLE | Finance Charge Memo Line |
| 111 | NULL | NULL | Finance Charge T | TABLE | Finance Charge Terms |
| 112 | NULL | NULL | Finance Charge T | TABLE | Finance Charge Text |
| 113 | NULL | NULL | Fixed Asset | TABLE | Fixed Asset |
| 114 | NULL | NULL | G/L Account | TABLE | G/L Account |
| 115 | NULL | NULL | G/L Account Net | TABLE | G/L Account Net Change |
| 116 | NULL | NULL | G/L Budget Entry | TABLE | G/L Budget Entry |
| 117 | NULL | NULL | G/L Budget Name | TABLE | G/L Budget Name |
| 118 | NULL | NULL | G/L Entry | TABLE | G/L Entry |
| 119 | NULL | NULL | G/L Register | TABLE | G/L Register |
| 120 | NULL | NULL | Gains and Losses | TABLE | Gains and Losses Post. Buffer |
| 121 | NULL | NULL | Gen Business Pos | TABLE | Gen. Business Posting Group |
| 122 | NULL | NULL | Gen Jnl Allocati | TABLE | Gen. Jnl. Allocation |
| 123 | NULL | NULL | Gen Journal Batc | TABLE | Gen. Journal Batch |
| 124 | NULL | NULL | Gen Journal Line | TABLE | Gen. Journal Line |
| 125 | NULL | NULL | Gen Journal Temp | TABLE | Gen. Journal Template |
| 126 | NULL | NULL | Gen Product Post | TABLE | Gen. Product Posting Group |
| 127 | NULL | NULL | General Ledger S | TABLE | General Ledger Setup |
| 128 | NULL | NULL | General Posting | TABLE | General Posting Setup |
| 129 | NULL | NULL | Grounds for Term | TABLE | Grounds for Termination |
| 130 | NULL | NULL | HR Confidential | TABLE | HR Confidential Comment Line |
| 131 | NULL | NULL | Human Resource C | TABLE | Human Resource Comment Line |
| 132 | NULL | NULL | Human Resources | TABLE | Human Resources Setup |
| 133 | NULL | NULL | Ins Coverage Led | TABLE | Ins. Coverage Ledger Entry |
| 134 | NULL | NULL | Insurance | TABLE | Insurance |
| 135 | NULL | NULL | Insurance Journa | TABLE | Insurance Journal Batch |
| 136 | NULL | NULL | Insurance Journa | TABLE | Insurance Journal Line |
| 137 | NULL | NULL | Insurance Journa | TABLE | Insurance Journal Template |
| 138 | NULL | NULL | Insurance Regist | TABLE | Insurance Register |
| 139 | NULL | NULL | Insurance Type | TABLE | Insurance Type |
| 140 | NULL | NULL | Integer | TABLE | Integer |
| 141 | NULL | NULL | Intrastat Jnl Ba | TABLE | Intrastat Jnl. Batch |
| 142 | NULL | NULL | Intrastat Jnl Li | TABLE | Intrastat Jnl. Line |
| 143 | NULL | NULL | Intrastat Jnl Te | TABLE | Intrastat Jnl. Template |
| 144 | NULL | NULL | Inventory Buffer | TABLE | Inventory Buffer |
| 145 | NULL | NULL | Inventory Postin | TABLE | Inventory Posting Group |
| 146 | NULL | NULL | Inventory Setup | TABLE | Inventory Setup |
| 147 | NULL | NULL | Invoice Post Buf | TABLE | Invoice Post. Buffer |
| 148 | NULL | NULL | Invt Posting Buf | TABLE | Invt. Posting Buffer |
| 149 | NULL | NULL | Issued Fin Charg | TABLE | Issued Fin. Charge Memo Header |
| 150 | NULL | NULL | Issued Fin Charg | TABLE | Issued Fin. Charge Memo Line |
| 151 | NULL | NULL | Issued Reminder | TABLE | Issued Reminder Header |
| 152 | NULL | NULL | Issued Reminder | TABLE | Issued Reminder Line |
| 153 | NULL | NULL | Item | TABLE | Item |
| 154 | NULL | NULL | Item Amount | TABLE | Item Amount |
| 155 | NULL | NULL | Item Application | TABLE | Item Application Entry |
| 156 | NULL | NULL | Item Discount Gr | TABLE | Item Discount Group |
| 157 | NULL | NULL | Item Journal Bat | TABLE | Item Journal Batch |
| 158 | NULL | NULL | Item Journal Lin | TABLE | Item Journal Line |
| 159 | NULL | NULL | Item Journal Tem | TABLE | Item Journal Template |
| 160 | NULL | NULL | Item Ledger Entr | TABLE | Item Ledger Entry |
| 161 | NULL | NULL | Item Price | TABLE | Item Price |
| 162 | NULL | NULL | Item Price Chang | TABLE | Item Price Change |
| 163 | NULL | NULL | Item PurchQtyDis | TABLE | Item Purch.Qty.Disc. |
| 164 | NULL | NULL | Item Register | TABLE | Item Register |
| 165 | NULL | NULL | Item Sales Qty D | TABLE | Item Sales Qty. Disc. |
| 166 | NULL | NULL | Item Translation | TABLE | Item Translation |
| 167 | NULL | NULL | Item Unit of Mea | TABLE | Item Unit of Measure |
| 168 | NULL | NULL | Item Variant | TABLE | Item Variant |
| 169 | NULL | NULL | Item Vendor | TABLE | Item Vendor |
| 170 | NULL | NULL | Job | TABLE | Job |
| 171 | NULL | NULL | Job Budget Entry | TABLE | Job Budget Entry |
| 172 | NULL | NULL | Job Budget Line | TABLE | Job Budget Line |
| 173 | NULL | NULL | Job Journal Batc | TABLE | Job Journal Batch |
| 174 | NULL | NULL | Job Journal Line | TABLE | Job Journal Line |
| 175 | NULL | NULL | Job Journal Quan | TABLE | Job Journal Quantity |
| 176 | NULL | NULL | Job Journal Temp | TABLE | Job Journal Template |
| 177 | NULL | NULL | Job Ledger Entry | TABLE | Job Ledger Entry |
| 178 | NULL | NULL | Job Posting Buff | TABLE | Job Posting Buffer |
| 179 | NULL | NULL | Job Posting Grou | TABLE | Job Posting Group |
| 180 | NULL | NULL | Job Register | TABLE | Job Register |
| 181 | NULL | NULL | Jobs Setup | TABLE | Jobs Setup |
| 182 | NULL | NULL | Language | TABLE | Language |
| 183 | NULL | NULL | License Informat | TABLE | License Information |
| 184 | NULL | NULL | License Permissi | TABLE | License Permission |
| 185 | NULL | NULL | Line Number Buff | TABLE | Line Number Buffer |
| 186 | NULL | NULL | Location | TABLE | Location |
| 187 | NULL | NULL | Main Asset Compo | TABLE | Main Asset Component |
| 188 | NULL | NULL | Maintenance | TABLE | Maintenance |
| 189 | NULL | NULL | Maintenance Ledg | TABLE | Maintenance Ledger Entry |
| 190 | NULL | NULL | Maintenance Regi | TABLE | Maintenance Registration |
| 191 | NULL | NULL | Market Group Cod | TABLE | Market Group Code |
| 192 | NULL | NULL | Member Of | TABLE | Member Of |
| 193 | NULL | NULL | Misc Article | TABLE | Misc. Article |
| 194 | NULL | NULL | Misc Article Inf | TABLE | Misc. Article Information |
| 195 | NULL | NULL | Monitor | TABLE | Monitor |
| 196 | NULL | NULL | No Series | TABLE | No. Series |
| 197 | NULL | NULL | No Series Line | TABLE | No. Series Line |
| 198 | NULL | NULL | No Series Relati | TABLE | No. Series Relationship |
| 199 | NULL | NULL | OLE Control | TABLE | OLE Control |
| 200 | NULL | NULL | Object | TABLE | Object |
| 201 | NULL | NULL | Order Address | TABLE | Order Address |
| 202 | NULL | NULL | Payable Vendor L | TABLE | Payable Vendor Ledger Entry |
| 203 | NULL | NULL | Payment Method | TABLE | Payment Method |
| 204 | NULL | NULL | Payment Terms | TABLE | Payment Terms |
| 205 | NULL | NULL | Performance | TABLE | Performance |
| 206 | NULL | NULL | Permission | TABLE | Permission |
| 207 | NULL | NULL | Permission Range | TABLE | Permission Range |
| 208 | NULL | NULL | Phase | TABLE | Phase |
| 209 | NULL | NULL | Phys Inventory L | TABLE | Phys. Inventory Ledger Entry |
| 210 | NULL | NULL | Price Group | TABLE | Price Group |
| 211 | NULL | NULL | Printer | TABLE | Printer |
| 212 | NULL | NULL | Printer Selectio | TABLE | Printer Selection |
| 213 | NULL | NULL | Prod Order Compo | TABLE | Prod. Order Component |
| 214 | NULL | NULL | Prod Order Line | TABLE | Prod. Order Line |
| 215 | NULL | NULL | Project | TABLE | Project |
| 216 | NULL | NULL | Prospect | TABLE | Prospect |
| 217 | NULL | NULL | Prospect Status | TABLE | Prospect Status |
| 218 | NULL | NULL | Prospect Trade | TABLE | Prospect Trade |
| 219 | NULL | NULL | Prospect/Contact | TABLE | Prospect/Contact Market Group |
| 220 | NULL | NULL | Purch Comment Li | TABLE | Purch. Comment Line |
| 221 | NULL | NULL | Purch Cr Memo Hd | TABLE | Purch. Cr. Memo Hdr. |
| 222 | NULL | NULL | Purch Cr Memo Li | TABLE | Purch. Cr. Memo Line |
| 223 | NULL | NULL | Purch Inv Header | TABLE | Purch. Inv. Header |
| 224 | NULL | NULL | Purch Inv Line | TABLE | Purch. Inv. Line |
| 225 | NULL | NULL | Purch Rcpt Heade | TABLE | Purch. Rcpt. Header |
| 226 | NULL | NULL | Purch Rcpt Line | TABLE | Purch. Rcpt. Line |
| 227 | NULL | NULL | Purchase Header | TABLE | Purchase Header |
| 228 | NULL | NULL | Purchase Line | TABLE | Purchase Line |
| 229 | NULL | NULL | Purchases & Paya | TABLE | Purchases & Payables Setup |
| 230 | NULL | NULL | Qualification | TABLE | Qualification |
| 231 | NULL | NULL | Reason Code | TABLE | Reason Code |
| 232 | NULL | NULL | Relative | TABLE | Relative |
| 233 | NULL | NULL | Reminder Comment | TABLE | Reminder Comment Line |
| 234 | NULL | NULL | Reminder Header | TABLE | Reminder Header |
| 235 | NULL | NULL | Reminder Level | TABLE | Reminder Level |
| 236 | NULL | NULL | Reminder Line | TABLE | Reminder Line |
| 237 | NULL | NULL | Reminder Terms | TABLE | Reminder Terms |
| 238 | NULL | NULL | Reminder Text | TABLE | Reminder Text |
| 239 | NULL | NULL | Reminder/Fin Cha | TABLE | Reminder/Fin. Charge Entry |
| 240 | NULL | NULL | Report List | TABLE | Report List |
| 241 | NULL | NULL | Report Selection | TABLE | Report Selections |
| 242 | NULL | NULL | Req Wksh Templat | TABLE | Req. Wksh. Template |
| 243 | NULL | NULL | Requisition Line | TABLE | Requisition Line |
| 244 | NULL | NULL | Requisition Meth | TABLE | Requisition Method |
| 245 | NULL | NULL | Requisition Wksh | TABLE | Requisition Wksh. Name |
| 246 | NULL | NULL | Res Capacity Ent | TABLE | Res. Capacity Entry |
| 247 | NULL | NULL | Res Journal Batc | TABLE | Res. Journal Batch |
| 248 | NULL | NULL | Res Journal Line | TABLE | Res. Journal Line |
| 249 | NULL | NULL | Res Journal Temp | TABLE | Res. Journal Template |
| 250 | NULL | NULL | Res Ledger Entry | TABLE | Res. Ledger Entry |
| 251 | NULL | NULL | Reservation Entr | TABLE | Reservation Entry |
| 252 | NULL | NULL | Reservation Setu | TABLE | Reservation Setup |
| 253 | NULL | NULL | Resource | TABLE | Resource |
| 254 | NULL | NULL | Resource Cost | TABLE | Resource Cost |
| 255 | NULL | NULL | Resource Group | TABLE | Resource Group |
| 256 | NULL | NULL | Resource Price | TABLE | Resource Price |
| 257 | NULL | NULL | Resource Price C | TABLE | Resource Price Change |
| 258 | NULL | NULL | Resource Registe | TABLE | Resource Register |
| 259 | NULL | NULL | Resources Setup | TABLE | Resources Setup |
| 260 | NULL | NULL | Rounding Method | TABLE | Rounding Method |
| 261 | NULL | NULL | Sales & Receivab | TABLE | Sales & Receivables Setup |
| 262 | NULL | NULL | Sales Comment Li | TABLE | Sales Comment Line |
| 263 | NULL | NULL | Sales CrMemo Hea | TABLE | Sales Cr.Memo Header |
| 264 | NULL | NULL | Sales CrMemo Lin | TABLE | Sales Cr.Memo Line |
| 265 | NULL | NULL | Sales Header | TABLE | Sales Header |
| 266 | NULL | NULL | Sales Invoice He | TABLE | Sales Invoice Header |
| 267 | NULL | NULL | Sales Invoice Li | TABLE | Sales Invoice Line |
| 268 | NULL | NULL | Sales Line | TABLE | Sales Line |
| 269 | NULL | NULL | Sales Shipment H | TABLE | Sales Shipment Header |
| 270 | NULL | NULL | Sales Shipment L | TABLE | Sales Shipment Line |
| 271 | NULL | NULL | Salesperson/Purc | TABLE | Salesperson/Purchaser |
| 272 | NULL | NULL | Session | TABLE | Session |
| 273 | NULL | NULL | Setup Checklist | TABLE | Setup Checklist Comment |
| 274 | NULL | NULL | Setup Checklist | TABLE | Setup Checklist Line |
| 275 | NULL | NULL | Ship-to Address | TABLE | Ship-to Address |
| 276 | NULL | NULL | Shipment Method | TABLE | Shipment Method |
| 277 | NULL | NULL | Shipping Agent | TABLE | Shipping Agent |
| 278 | NULL | NULL | Source Code | TABLE | Source Code |
| 279 | NULL | NULL | Source Code Setu | TABLE | Source Code Setup |
| 280 | NULL | NULL | Standard Text | TABLE | Standard Text |
| 281 | NULL | NULL | Step | TABLE | Step |
| 282 | NULL | NULL | System Object | TABLE | System Object |
| 283 | NULL | NULL | Table Informatio | TABLE | Table Information |
| 284 | NULL | NULL | Task | TABLE | Task |
| 285 | NULL | NULL | Tax Area | TABLE | Tax Area |
| 286 | NULL | NULL | Tax Area Line | TABLE | Tax Area Line |
| 287 | NULL | NULL | Tax Detail | TABLE | Tax Detail |
| 288 | NULL | NULL | Tax Group | TABLE | Tax Group |
| 289 | NULL | NULL | Tax Jurisdiction | TABLE | Tax Jurisdiction |
| 290 | NULL | NULL | Territory | TABLE | Territory |
| 291 | NULL | NULL | Trade Code | TABLE | Trade Code |
| 292 | NULL | NULL | Transaction Natu | TABLE | Transaction Nature |
| 293 | NULL | NULL | Transaction Spec | TABLE | Transaction Specification |
| 294 | NULL | NULL | Transport Method | TABLE | Transport Method |
| 295 | NULL | NULL | Type of Supply | TABLE | Type of Supply |
| 296 | NULL | NULL | Union | TABLE | Union |
| 297 | NULL | NULL | Unit of Measure | TABLE | Unit of Measure |
| 298 | NULL | NULL | Unit of Measure | TABLE | Unit of Measure Translation |
| 299 | NULL | NULL | User | TABLE | User |
| 300 | NULL | NULL | User Group | TABLE | User Group |
| 301 | NULL | NULL | User Setup | TABLE | User Setup |
| 302 | NULL | NULL | User Time Regist | TABLE | User Time Register |
| 303 | NULL | NULL | VAT Amount Line | TABLE | VAT Amount Line |
| 304 | NULL | NULL | VAT Business Pos | TABLE | VAT Business Posting Group |
| 305 | NULL | NULL | VAT Entry | TABLE | VAT Entry |
| 306 | NULL | NULL | VAT Posting Setu | TABLE | VAT Posting Setup |
| 307 | NULL | NULL | VAT Product Post | TABLE | VAT Product Posting Group |
| 308 | NULL | NULL | VAT Statement Li | TABLE | VAT Statement Line |
| 309 | NULL | NULL | VAT Statement Na | TABLE | VAT Statement Name |
| 310 | NULL | NULL | VAT Statement Te | TABLE | VAT Statement Template |
| 311 | NULL | NULL | VAT Tolerance | TABLE | VAT Tolerance |
| 312 | NULL | NULL | Vendor | TABLE | Vendor |
| 313 | NULL | NULL | Vendor Amount | TABLE | Vendor Amount |
| 314 | NULL | NULL | Vendor Bank Acco | TABLE | Vendor Bank Account |
| 315 | NULL | NULL | Vendor Invoice D | TABLE | Vendor Invoice Disc. |
| 316 | NULL | NULL | Vendor Ledger En | TABLE | Vendor Ledger Entry |
| 317 | NULL | NULL | Vendor Posting G | TABLE | Vendor Posting Group |
| 318 | NULL | NULL | Windows Language | TABLE | Windows Language |
| 319 | NULL | NULL | Work Type | TABLE | Work Type |

SQLTables(hstmt,NULL,0,NULL,0,NULL,0,NULL,0)

This may be modified in ODBC.INI or with the connection parameters:

|  |  |
| --- | --- |
|  | **Resulting connection string** |
| 1 | DSN=SWNav32s,Fname=0,Owner=1,Qualifier=0,Ftext=3,,FNAME=4,UPPER=0,BASIS=d:\DEMODAN\,DMF=d: |

SQLDriverConnect(henv,NULL,

"DSN=SWNav32s;Fname=0;Owner=1;Qualifier=0;Ftext=3",

SQL\_NTS,constr,256,&len,SQL\_DRIVER\_COMPLETE)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 | NULL | SSV | SY | SYSTEM TABLE | SY Systemfields |
| 2 | NULL | Nav32 | AA | TABLE | AA Payment Terms Payment Terms |
| 3 | NULL | Nav32 | AB | TABLE | AB Currency Currency |
| 4 | NULL | Nav32 | AC | TABLE | AC Finance Charge Terms Finance |
| 5 | NULL | Nav32 | AD | TABLE | AD Price Group Price Group |
| 6 | NULL | Nav32 | AE | TABLE | AE Standard Text Standard Text |
| 7 | NULL | Nav32 | AF | TABLE | AF Language Language |
| 8 | NULL | Nav32 | AG | TABLE | AG Country Country |
| 9 | NULL | Nav32 | AH | TABLE | AH Shipment Method Shipment Meth |
| 10 | NULL | Nav32 | AI | TABLE | AI Department Department |
| 11 | NULL | Nav32 | AJ | TABLE | AJ Project Project |
| 12 | NULL | Nav32 | AK | TABLE | AK Salesperson/Purchaser Salespe |
| 13 | NULL | Nav32 | AL | TABLE | AL Location Location |
| 14 | NULL | Nav32 | AM | TABLE | AM G/L Account G/L Account |
| 15 | NULL | Nav32 | AN | TABLE | AN G/L Entry G/L Entry |
| 16 | NULL | Nav32 | AO | TABLE | AO Customer Customer |
| 17 | NULL | Nav32 | AP | TABLE | AP Cust. Invoice Disc. Cust. Inv |
| 18 | NULL | Nav32 | AQ | TABLE | AQ Cust./Item Discount Cust./Ite |
| 19 | NULL | Nav32 | AR | TABLE | AR Cust. Ledger Entry Cust. Ledg |
| 20 | NULL | Nav32 | AS | TABLE | AS Vendor Vendor |
| 21 | NULL | Nav32 | AT | TABLE | AT Vendor Invoice Disc. Vendor I |
| 22 | NULL | Nav32 | AU | TABLE | AU Vendor Ledger Entry Vendor Le |
| 23 | NULL | Nav32 | AV | TABLE | AV Item Item |
| 24 | NULL | Nav32 | AW | TABLE | AW Item Price Item Price |
| 25 | NULL | Nav32 | AX | TABLE | AX Item Sales Qty. Disc. Item Sa |
| 26 | NULL | Nav32 | AY | TABLE | AY Item Translation Item Transla |
| 27 | NULL | Nav32 | AZ | TABLE | AZ Item Ledger Entry Item Ledger |
| 28 | NULL | Nav32 | BA | TABLE | BA Sales Header Sales Header |
| 29 | NULL | Nav32 | BB | TABLE | BB Sales Line Sales Line |
| 30 | NULL | Nav32 | BC | TABLE | BC Purchase Header Purchase Head |
| 31 | NULL | Nav32 | BD | TABLE | BD Purchase Line Purchase Line |
| 32 | NULL | Nav32 | BE | TABLE | BE Item Price Change Item Price |
| 33 | NULL | Nav32 | BF | TABLE | BF Rounding Method Rounding Meth |
| 34 | NULL | Nav32 | BG | TABLE | BG Purch. Comment Line Purch. Co |
| 35 | NULL | Nav32 | BH | TABLE | BH Sales Comment Line Sales Comm |
| 36 | NULL | Nav32 | BI | TABLE | BI G/L Register G/L Register |
| 37 | NULL | Nav32 | BJ | TABLE | BJ Item Register Item Register |
| 38 | NULL | Nav32 | BK | TABLE | BK Invt. Posting Buffer Invt. Po |
| 39 | NULL | Nav32 | BL | TABLE | BL Invoice Post. Buffer Invoice |
| 40 | NULL | Nav32 | BM | TABLE | BM Accounting Period Accounting |
| 41 | NULL | Nav32 | BN | TABLE | BN User Time Register User Time |
| 42 | NULL | Nav32 | BO | TABLE | BO Report Selections Report Sele |
| 43 | NULL | Nav32 | BP | TABLE | BP Printer Selection Printer Sel |
| 44 | NULL | Nav32 | BQ | TABLE | BQ Company Information Company I |
| 45 | NULL | Nav32 | BR | TABLE | BR Gen. Journal Template Gen. Jo |
| 46 | NULL | Nav32 | BS | TABLE | BS Gen. Journal Line Gen. Journa |
| 47 | NULL | Nav32 | BT | TABLE | BT Item Journal Template Item Jo |
| 48 | NULL | Nav32 | BU | TABLE | BU Item Journal Line Item Journa |
| 49 | NULL | Nav32 | BV | TABLE | BV Acc. Schedule Name Acc. Sched |
| 50 | NULL | Nav32 | BW | TABLE | BW Acc. Schedule Line Acc. Sched |
| 51 | NULL | Nav32 | BX | TABLE | BX Exch. Rate Adjmt. Reg. Exch. |
| 52 | NULL | Nav32 | BY | TABLE | BY Date Compr. Register Date Com |
| 53 | NULL | Nav32 | BZ | TABLE | BZ BOM Journal Template BOM Jour |
| 54 | NULL | Nav32 | CA | TABLE | CA BOM Journal Line BOM Journal |
| 55 | NULL | Nav32 | CB | TABLE | CB BOM Component BOM Component |
| 56 | NULL | Nav32 | CC | TABLE | CC User Setup User Setup |
| 57 | NULL | Nav32 | CD | TABLE | CD Customer Posting Group Custom |
| 58 | NULL | Nav32 | CE | TABLE | CE Vendor Posting Group Vendor P |
| 59 | NULL | Nav32 | CF | TABLE | CF Inventory Posting Group Inven |
| 60 | NULL | Nav32 | CG | TABLE | CG G/L Budget Name G/L Budget Na |
| 61 | NULL | Nav32 | CH | TABLE | CH G/L Budget Entry G/L Budget E |
| 62 | NULL | Nav32 | CI | TABLE | CI Comment Line Comment Line |
| 63 | NULL | Nav32 | CJ | TABLE | CJ General Ledger Setup General |
| 64 | NULL | Nav32 | CK | TABLE | CK Item Vendor Item Vendor |
| 65 | NULL | Nav32 | CL | TABLE | CL Item Purch.Qty.Disc. Item Pur |
| 66 | NULL | Nav32 | CM | TABLE | CM Sales Shipment Header Sales S |
| 67 | NULL | Nav32 | CN | TABLE | CN Sales Shipment Line Sales Shi |
| 68 | NULL | Nav32 | CO | TABLE | CO Sales Invoice Header Sales In |
| 69 | NULL | Nav32 | CP | TABLE | CP Sales Invoice Line Sales Invo |
| 70 | NULL | Nav32 | CQ | TABLE | CQ Sales Cr.Memo Header Sales Cr |
| 71 | NULL | Nav32 | CR | TABLE | CR Sales Cr.Memo Line Sales Cr.M |
| 72 | NULL | Nav32 | CS | TABLE | CS Purch. Rcpt. Header Purch. Rc |
| 73 | NULL | Nav32 | CT | TABLE | CT Purch. Rcpt. Line Purch. Rcpt |
| 74 | NULL | Nav32 | CU | TABLE | CU Purch. Inv. Header Purch. Inv |
| 75 | NULL | Nav32 | CV | TABLE | CV Purch. Inv. Line Purch. Inv. |
| 76 | NULL | Nav32 | CW | TABLE | CW Purch. Cr. Memo Hdr. Purch. C |
| 77 | NULL | Nav32 | CX | TABLE | CX Purch. Cr. Memo Line Purch. C |
| 78 | NULL | Nav32 | CY | TABLE | CY Resource Group Resource Group |
| 79 | NULL | Nav32 | CZ | TABLE | CZ Resource Resource |
| 80 | NULL | Nav32 | DA | TABLE | DA Res. Capacity Entry Res. Capa |
| 81 | NULL | Nav32 | DB | TABLE | DB Phase Phase |
| 82 | NULL | Nav32 | DC | TABLE | DC Task Task |
| 83 | NULL | Nav32 | DD | TABLE | DD Step Step |
| 84 | NULL | Nav32 | DE | TABLE | DE Job Job |
| 85 | NULL | Nav32 | DF | TABLE | DF Job Budget Line Job Budget Li |
| 86 | NULL | Nav32 | DG | TABLE | DG Job Ledger Entry Job Ledger E |
| 87 | NULL | Nav32 | DH | TABLE | DH Work Type Work Type |
| 88 | NULL | Nav32 | DI | TABLE | DI Resource Price Resource Price |
| 89 | NULL | Nav32 | DJ | TABLE | DJ Resource Cost Resource Cost |
| 90 | NULL | Nav32 | DK | TABLE | DK Res. Ledger Entry Res. Ledger |
| 91 | NULL | Nav32 | DL | TABLE | DL Unit of Measure Unit of Measu |
| 92 | NULL | Nav32 | DM | TABLE | DM Res. Journal Template Res. Jo |
| 93 | NULL | Nav32 | DN | TABLE | DN Res. Journal Line Res. Journa |
| 94 | NULL | Nav32 | DO | TABLE | DO Job Posting Group Job Posting |
| 95 | NULL | Nav32 | DP | TABLE | DP Job Journal Template Job Jour |
| 96 | NULL | Nav32 | DQ | TABLE | DQ Job Journal Line Job Journal |
| 97 | NULL | Nav32 | DR | TABLE | DR Job Budget Entry Job Budget E |
| 98 | NULL | Nav32 | DS | TABLE | DS Job Posting Buffer Job Postin |
| 99 | NULL | Nav32 | DT | TABLE | DT Business Unit Business Unit |
| 100 | NULL | Nav32 | DU | TABLE | DU Gen. Jnl. Allocation Gen. Jnl |
| 101 | NULL | Nav32 | DV | TABLE | DV Ship-to Address Ship-to Addre |
| 102 | NULL | Nav32 | DW | TABLE | DW Drop Shpt. Post. Buffer Drop |
| 103 | NULL | Nav32 | DX | TABLE | DX Order Address Order Address |
| 104 | NULL | Nav32 | DZ | TABLE | DZ Source Code Source Code |
| 105 | NULL | Nav32 | EA | TABLE | EA Reason Code Reason Code |
| 106 | NULL | Nav32 | EB | TABLE | EB Gen. Journal Batch Gen. Journ |
| 107 | NULL | Nav32 | EC | TABLE | EC Item Journal Batch Item Journ |
| 108 | NULL | Nav32 | ED | TABLE | ED BOM Journal Batch BOM Journal |
| 109 | NULL | Nav32 | EE | TABLE | EE Res. Journal Batch Res. Journ |
| 110 | NULL | Nav32 | EF | TABLE | EF Job Journal Batch Job Journal |
| 111 | NULL | Nav32 | EG | TABLE | EG BOM Ledger Entry BOM Ledger E |
| 112 | NULL | Nav32 | EH | TABLE | EH BOM Register BOM Register |
| 113 | NULL | Nav32 | EI | TABLE | EI Resource Register Resource Re |
| 114 | NULL | Nav32 | EJ | TABLE | EJ Job Register Job Register |
| 115 | NULL | Nav32 | EK | TABLE | EK Source Code Setup Source Code |
| 116 | NULL | Nav32 | EL | TABLE | EL Report List Report List |
| 117 | NULL | Nav32 | EM | TABLE | EM Req. Wksh. Template Req. Wksh |
| 118 | NULL | Nav32 | EN | TABLE | EN Requisition Wksh. Name Requis |
| 119 | NULL | Nav32 | EO | TABLE | EO Requisition Line Requisition |
| 120 | NULL | Nav32 | EP | TABLE | EP Gen. Business Posting Group G |
| 121 | NULL | Nav32 | EQ | TABLE | EQ Gen. Product Posting Group Ge |
| 122 | NULL | Nav32 | ER | TABLE | ER General Posting Setup General |
| 123 | NULL | Nav32 | ES | TABLE | ES VAT Entry VAT Entry |
| 124 | NULL | Nav32 | ET | TABLE | ET VAT Statement Template VAT St |
| 125 | NULL | Nav32 | EU | TABLE | EU VAT Statement Line VAT Statem |
| 126 | NULL | Nav32 | EV | TABLE | EV VAT Statement Name VAT Statem |
| 127 | NULL | Nav32 | EW | TABLE | EW Transaction Nature Transactio |
| 128 | NULL | Nav32 | EX | TABLE | EX Transport Method Transport Me |
| 129 | NULL | Nav32 | EY | TABLE | EY Commodity Code Commodity Code |
| 130 | NULL | Nav32 | EZ | TABLE | EZ Intrastat Jnl. Template Intra |
| 131 | NULL | Nav32 | FA | TABLE | FA Intrastat Jnl. Batch Intrasta |
| 132 | NULL | Nav32 | FB | TABLE | FB Intrastat Jnl. Line Intrastat |
| 133 | NULL | Nav32 | FC | TABLE | FC Document Entry Document Entry |
| 134 | NULL | Nav32 | FD | TABLE | FD Customer Amount Customer Amou |
| 135 | NULL | Nav32 | FE | TABLE | FE Vendor Amount Vendor Amount |
| 136 | NULL | Nav32 | FF | TABLE | FF Item Amount Item Amount |
| 137 | NULL | Nav32 | FG | TABLE | FG G/L Account Net Change G/L Ac |
| 138 | NULL | Nav32 | FH | TABLE | FH Bank Account Bank Account |
| 139 | NULL | Nav32 | FI | TABLE | FI Bank Account Ledger Entry Ban |
| 140 | NULL | Nav32 | FJ | TABLE | FJ Cheque Ledger Entry Cheque Le |
| 141 | NULL | Nav32 | FK | TABLE | FK Bank Acc. Reconciliation Bank |
| 142 | NULL | Nav32 | FL | TABLE | FL Bank Acc. Reconciliation Line |
| 143 | NULL | Nav32 | FM | TABLE | FM Bank Account Statement Bank A |
| 144 | NULL | Nav32 | FN | TABLE | FN Bank Account Statement Line B |
| 145 | NULL | Nav32 | FO | TABLE | FO Bank Account Posting Group Ba |
| 146 | NULL | Nav32 | FP | TABLE | FP Job Journal Quantity Job Jour |
| 147 | NULL | Nav32 | FQ | TABLE | FQ Extended Text Header Extended |
| 148 | NULL | Nav32 | FR | TABLE | FR Extended Text Line Extended T |
| 149 | NULL | Nav32 | FS | TABLE | FS Phys. Inventory Ledger Entry |
| 150 | NULL | Nav32 | FT | TABLE | FT Entry/Exit Point Entry/Exit P |
| 151 | NULL | Nav32 | FU | TABLE | FU Line Number Buffer Line Numbe |
| 152 | NULL | Nav32 | FV | TABLE | FV Area Area |
| 153 | NULL | Nav32 | FW | TABLE | FW Transaction Specification Tra |
| 154 | NULL | Nav32 | FX | TABLE | FX Territory Territory |
| 155 | NULL | Nav32 | FY | TABLE | FY Customer Bank Account Custome |
| 156 | NULL | Nav32 | FZ | TABLE | FZ Vendor Bank Account Vendor Ba |
| 157 | NULL | Nav32 | GA | TABLE | GA Payment Method Payment Method |
| 158 | NULL | Nav32 | GB | TABLE | GB VAT Amount Line VAT Amount Li |
| 159 | NULL | Nav32 | GC | TABLE | GC Shipping Agent Shipping Agent |
| 160 | NULL | Nav32 | GD | TABLE | GD Reminder Terms Reminder Terms |
| 161 | NULL | Nav32 | GE | TABLE | GE Reminder Level Reminder Level |
| 162 | NULL | Nav32 | GF | TABLE | GF Reminder Text Reminder Text |
| 163 | NULL | Nav32 | GG | TABLE | GG Reminder Header Reminder Head |
| 164 | NULL | Nav32 | GH | TABLE | GH Reminder Line Reminder Line |
| 165 | NULL | Nav32 | GI | TABLE | GI Issued Reminder Header Issued |
| 166 | NULL | Nav32 | GJ | TABLE | GJ Issued Reminder Line Issued R |
| 167 | NULL | Nav32 | GK | TABLE | GK Reminder Comment Line Reminde |
| 168 | NULL | Nav32 | GL | TABLE | GL Reminder/Fin. Charge Entry Re |
| 169 | NULL | Nav32 | GM | TABLE | GM Finance Charge Text Finance C |
| 170 | NULL | Nav32 | GN | TABLE | GN Finance Charge Memo Header Fi |
| 171 | NULL | Nav32 | GO | TABLE | GO Finance Charge Memo Line Fina |
| 172 | NULL | Nav32 | GP | TABLE | GP Issued Fin. Charge Memo Heade |
| 173 | NULL | Nav32 | GQ | TABLE | GQ Issued Fin. Charge Memo Line |
| 174 | NULL | Nav32 | GR | TABLE | GR Fin. Charge Comment Line Fin. |
| 175 | NULL | Nav32 | GS | TABLE | GS Inventory Buffer Inventory Bu |
| 176 | NULL | Nav32 | GT | TABLE | GT No. Series No. Series |
| 177 | NULL | Nav32 | GU | TABLE | GU No. Series Line No. Series Li |
| 178 | NULL | Nav32 | GV | TABLE | GV No. Series Relationship No. S |
| 179 | NULL | Nav32 | GW | TABLE | GW Sales & Receivables Setup Sal |
| 180 | NULL | Nav32 | GX | TABLE | GX Purchases & Payables Setup Pu |
| 181 | NULL | Nav32 | GY | TABLE | GY Inventory Setup Inventory Set |
| 182 | NULL | Nav32 | GZ | TABLE | GZ Resources Setup Resources Set |
| 183 | NULL | Nav32 | HA | TABLE | HA Jobs Setup Jobs Setup |
| 184 | NULL | Nav32 | HB | TABLE | HB Payable Vendor Ledger Entry P |
| 185 | NULL | Nav32 | HC | TABLE | HC Tax Area Tax Area |
| 186 | NULL | Nav32 | HD | TABLE | HD Tax Area Line Tax Area Line |
| 187 | NULL | Nav32 | HE | TABLE | HE Tax Jurisdiction Tax Jurisdic |
| 188 | NULL | Nav32 | HF | TABLE | HF Tax Group Tax Group |
| 189 | NULL | Nav32 | HG | TABLE | HG Tax Detail Tax Detail |
| 190 | NULL | Nav32 | HH | TABLE | HH VAT Business Posting Group VA |
| 191 | NULL | Nav32 | HI | TABLE | HI VAT Product Posting Group VAT |
| 192 | NULL | Nav32 | HJ | TABLE | HJ VAT Posting Setup VAT Posting |
| 193 | NULL | Nav32 | HK | TABLE | HK Currency for Fin. Charge Term |
| 194 | NULL | Nav32 | HL | TABLE | HL Currency for Reminder Level C |
| 195 | NULL | Nav32 | HM | TABLE | HM Currency Exchange Rate Curren |
| 196 | NULL | Nav32 | HN | TABLE | HN Adjust Exchange Rate Buffer A |
| 197 | NULL | Nav32 | HO | TABLE | HO Currency Total Buffer Currenc |
| 198 | NULL | Nav32 | HP | TABLE | HP Acc. Sched. Column Layout Nam |
| 199 | NULL | Nav32 | HQ | TABLE | HQ Acc. Sched. Column Acc. Sched |
| 200 | NULL | Nav32 | HR | TABLE | HR Resource Price Change Resourc |
| 201 | NULL | Nav32 | HS | TABLE | HS Reservation Setup Reservation |
| 202 | NULL | Nav32 | HT | TABLE | HT Reservation Entry Reservation |
| 203 | NULL | Nav32 | HU | TABLE | HU Entry Summary Entry Summary |
| 204 | NULL | Nav32 | HV | TABLE | HV Item Application Entry Item A |
| 205 | NULL | Nav32 | HW | TABLE | HW Customer Discount Group Custo |
| 206 | NULL | Nav32 | HX | TABLE | HX Item Discount Group Item Disc |
| 207 | NULL | Nav32 | HY | TABLE | HY Acc. Sched. Cell Value Acc. S |
| 208 | NULL | Nav32 | HZ | TABLE | HZ Gains and Losses Post. Buffer |
| 209 | NULL | Nav32 | IA | TABLE | IA Setup Checklist Line Setup Ch |
| 210 | NULL | Nav32 | IB | TABLE | IB Setup Checklist Comment Setup |
| 211 | NULL | Nav32 | IC | TABLE | IC Application Area Line Applica |
| 212 | NULL | Nav32 | ID | TABLE | ID Close Income Statement Buffer |
| 213 | NULL | Nav32 | IE | TABLE | IE Prospect Prospect |
| 214 | NULL | Nav32 | IF | TABLE | IF Prospect Status Prospect Stat |
| 215 | NULL | Nav32 | IG | TABLE | IG Contact Contact |
| 216 | NULL | Nav32 | IH | TABLE | IH Contact Job Responsibility Co |
| 217 | NULL | Nav32 | II | TABLE | II Campaign Campaign |
| 218 | NULL | Nav32 | IJ | TABLE | IJ Campaign Line Campaign Line |
| 219 | NULL | Nav32 | IK | TABLE | IK Cont. Mgt. Comment Line Cont. |
| 220 | NULL | Nav32 | IL | TABLE | IL Contact Management Setup Cont |
| 221 | NULL | Nav32 | IM | TABLE | IM Activity Activity |
| 222 | NULL | Nav32 | IN | TABLE | IN Activity Type Activity Type |
| 223 | NULL | Nav32 | IO | TABLE | IO Prospect/Contact Market Group |
| 224 | NULL | Nav32 | IP | TABLE | IP Market Group Code Market Grou |
| 225 | NULL | Nav32 | IQ | TABLE | IQ Prospect Trade Prospect Trade |
| 226 | NULL | Nav32 | IR | TABLE | IR Trade Code Trade Code |
| 227 | NULL | Nav32 | IS | TABLE | IS Employee Employee |
| 228 | NULL | Nav32 | IT | TABLE | IT Alternative Address Alternati |
| 229 | NULL | Nav32 | IU | TABLE | IU Qualification Qualification |
| 230 | NULL | Nav32 | IV | TABLE | IV Employee Qualification Employ |
| 231 | NULL | Nav32 | IW | TABLE | IW Relative Relative |
| 232 | NULL | Nav32 | IX | TABLE | IX Employee Relative Employee Re |
| 233 | NULL | Nav32 | IY | TABLE | IY Cause of Absence Cause of Abs |
| 234 | NULL | Nav32 | IZ | TABLE | IZ Employee Absence Employee Abs |
| 235 | NULL | Nav32 | JA | TABLE | JA Human Resource Comment Line H |
| 236 | NULL | Nav32 | JB | TABLE | JB Union Union |
| 237 | NULL | Nav32 | JC | TABLE | JC Cause of Inactivity Cause of |
| 238 | NULL | Nav32 | JD | TABLE | JD Employment Contract Employmen |
| 239 | NULL | Nav32 | JE | TABLE | JE Employee Statistics Group Emp |
| 240 | NULL | Nav32 | JF | TABLE | JF Misc. Article Misc. Article |
| 241 | NULL | Nav32 | JG | TABLE | JG Misc. Article Information Mis |
| 242 | NULL | Nav32 | JH | TABLE | JH Confidential Confidential |
| 243 | NULL | Nav32 | JI | TABLE | JI Confidential Information Conf |
| 244 | NULL | Nav32 | JJ | TABLE | JJ Grounds for Termination Groun |
| 245 | NULL | Nav32 | JK | TABLE | JK Human Resources Setup Human R |
| 246 | NULL | Nav32 | JL | TABLE | JL HR Confidential Comment Line |
| 247 | NULL | Nav32 | JM | TABLE | JM Bin Bin |
| 248 | NULL | Nav32 | JN | TABLE | JN Item Variant Item Variant |
| 249 | NULL | Nav32 | JO | TABLE | JO Unit of Measure Translation U |
| 250 | NULL | Nav32 | JP | TABLE | JP Item Unit of Measure Item Uni |
| 251 | NULL | Nav32 | JQ | TABLE | JQ Prod. Order Line Prod. Order |
| 252 | NULL | Nav32 | JR | TABLE | JR Prod. Order Component Prod. O |
| 253 | NULL | Nav32 | JS | TABLE | JS Requisition Method Requisitio |
| 254 | NULL | Nav32 | JT | TABLE | JT Fixed Asset Fixed Asset |
| 255 | NULL | Nav32 | JU | TABLE | JU FA Ledger Entry FA Ledger Ent |
| 256 | NULL | Nav32 | JV | TABLE | JV FA Setup FA Setup |
| 257 | NULL | Nav32 | JW | TABLE | JW FA Posting Type Setup FA Post |
| 258 | NULL | Nav32 | JX | TABLE | JX FA Journal Setup FA Journal S |
| 259 | NULL | Nav32 | JY | TABLE | JY FA Posting Group FA Posting G |
| 260 | NULL | Nav32 | JZ | TABLE | JZ FA Class FA Class |
| 261 | NULL | Nav32 | KA | TABLE | KA FA Subclass FA Subclass |
| 262 | NULL | Nav32 | KB | TABLE | KB FA Location FA Location |
| 263 | NULL | Nav32 | KC | TABLE | KC Depreciation Book Depreciatio |
| 264 | NULL | Nav32 | KD | TABLE | KD FA Depreciation Book FA Depre |
| 265 | NULL | Nav32 | KE | TABLE | KE FA Allocation FA Allocation |
| 266 | NULL | Nav32 | KF | TABLE | KF Maintenance Registration Main |
| 267 | NULL | Nav32 | KG | TABLE | KG FA Register FA Register |
| 268 | NULL | Nav32 | KH | TABLE | KH FA Journal Template FA Journa |
| 269 | NULL | Nav32 | KI | TABLE | KI FA Journal Batch FA Journal B |
| 270 | NULL | Nav32 | KJ | TABLE | KJ FA Journal Line FA Journal Li |
| 271 | NULL | Nav32 | KK | TABLE | KK FA Reclass. Journal Template |
| 272 | NULL | Nav32 | KL | TABLE | KL FA Reclass. Journal Batch FA |
| 273 | NULL | Nav32 | KM | TABLE | KM FA Reclass. Journal Line FA R |
| 274 | NULL | Nav32 | KN | TABLE | KN Maintenance Ledger Entry Main |
| 275 | NULL | Nav32 | KO | TABLE | KO Maintenance Maintenance |
| 276 | NULL | Nav32 | KP | TABLE | KP Insurance Insurance |
| 277 | NULL | Nav32 | KQ | TABLE | KQ Ins. Coverage Ledger Entry In |
| 278 | NULL | Nav32 | KR | TABLE | KR Insurance Type Insurance Type |
| 279 | NULL | Nav32 | KS | TABLE | KS Insurance Journal Template In |
| 280 | NULL | Nav32 | KT | TABLE | KT Insurance Journal Batch Insur |
| 281 | NULL | Nav32 | KU | TABLE | KU Insurance Journal Line Insura |
| 282 | NULL | Nav32 | KV | TABLE | KV Insurance Register Insurance |
| 283 | NULL | Nav32 | KW | TABLE | KW FA G/L Posting Buffer FA G/L |
| 284 | NULL | Nav32 | KX | TABLE | KX Main Asset Component Main Ass |
| 285 | NULL | Nav32 | KY | TABLE | KY FA Buffer Projection FA Buffe |
| 286 | NULL | Nav32 | KZ | TABLE | KZ Depreciation Table Header Dep |
| 287 | NULL | Nav32 | LA | TABLE | LA Depreciation Table Line Depre |
| 288 | NULL | Nav32 | LB | TABLE | LB FA Posting Type FA Posting Ty |
| 289 | NULL | Nav32 | LC | TABLE | LC FA Date Type FA Date Type |
| 290 | NULL | Nav32 | LD | TABLE | LD Depreciation Table Buffer Dep |
| 291 | NULL | Nav32 | LE | TABLE | LE FA Matrix Posting Type FA Mat |
| 292 | NULL | Nav32 | LF | TABLE | LF Type of Supply Type of Supply |
| 293 | NULL | Nav32 | LG | TABLE | LG VAT Tolerance VAT Tolerance |
| 294 | NULL | Nav32 | LH | TABLE | LH Object Object |
| 295 | NULL | Nav32 | LI | TABLE | LI User User |
| 296 | NULL | Nav32 | LJ | TABLE | LJ Member Of Member Of |
| 297 | NULL | Nav32 | LK | TABLE | LK User Group User Group |
| 298 | NULL | Nav32 | LL | TABLE | LL Permission Permission |
| 299 | NULL | Nav32 | LM | TABLE | LM Company Company |
| 300 | NULL | Nav32 | LN | TABLE | LN Date Date |
| 301 | NULL | Nav32 | LO | TABLE | LO Session Session |
| 302 | NULL | Nav32 | LP | TABLE | LP Database File Database File |
| 303 | NULL | Nav32 | LQ | TABLE | LQ Drive Drive |
| 304 | NULL | Nav32 | LR | TABLE | LR File File |
| 305 | NULL | Nav32 | LS | TABLE | LS Monitor Monitor |
| 306 | NULL | Nav32 | LT | TABLE | LT Integer Integer |
| 307 | NULL | Nav32 | LU | TABLE | LU Table Information Table Infor |
| 308 | NULL | Nav32 | LV | TABLE | LV System Object System Object |
| 309 | NULL | Nav32 | LW | TABLE | LW Performance Performance |
| 310 | NULL | Nav32 | LX | TABLE | LX AllObj AllObj |
| 311 | NULL | Nav32 | LY | TABLE | LY Printer Printer |
| 312 | NULL | Nav32 | LZ | TABLE | LZ License Information License I |
| 313 | NULL | Nav32 | MA | TABLE | MA Field Field |
| 314 | NULL | Nav32 | MB | TABLE | MB OLE Control OLE Control |
| 315 | NULL | Nav32 | MC | TABLE | MC License Permission License Pe |
| 316 | NULL | Nav32 | MD | TABLE | MD Permission Range Permission R |
| 317 | NULL | Nav32 | ME | TABLE | ME Windows Language Windows Lang |
| 318 | NULL | Nav32 | MF | TABLE | MF Automation Servers Automation |
| 319 | NULL | Nav32 | MG | TABLE | MG Database Key Groups Database |

SQLTables(hstmt,NULL,0,NULL,0,NULL,0,NULL,0)

The input parameters for SQLTables may use wildcards as for LIKE:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 | NULL | NULL | Item Sales Qty D | TABLE | Item Sales Qty. Disc. |
| 2 | NULL | NULL | Sales & Receivab | TABLE | Sales & Receivables Setup |
| 3 | NULL | NULL | Sales Comment Li | TABLE | Sales Comment Line |
| 4 | NULL | NULL | Sales CrMemo Hea | TABLE | Sales Cr.Memo Header |
| 5 | NULL | NULL | Sales CrMemo Lin | TABLE | Sales Cr.Memo Line |
| 6 | NULL | NULL | Sales Header | TABLE | Sales Header |
| 7 | NULL | NULL | Sales Invoice He | TABLE | Sales Invoice Header |
| 8 | NULL | NULL | Sales Invoice Li | TABLE | Sales Invoice Line |
| 9 | NULL | NULL | Sales Line | TABLE | Sales Line |
| 10 | NULL | NULL | Sales Shipment H | TABLE | Sales Shipment Header |
| 11 | NULL | NULL | Sales Shipment L | TABLE | Sales Shipment Line |
| 12 | NULL | NULL | Salesperson/Purc | TABLE | Salesperson/Purchaser |

SQLTables(hstmt,NULL,0,NULL,0,"%Sale%",SQL\_NTS,NULL,0)

If just the qualifier is specified with % a list of valid qualifiers is returned:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 |  | NULL | NULL | NULL | NULL |

SQLTables(hstmt,"%",SQL\_NTS,"",0,"",0,NULL,0)

If just the owner is specified with % a list of all valid owners is returned:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 | NULL |  | NULL | NULL | NULL |

SQLTables(hstmt,"",0,"%",SQL\_NTS,"",0,NULL,0)

If just the tabletype is specified with % a list of valid tabletypes is returned:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE\_QUALIFIER** | **TABLE\_OWNER** | **TABLE\_NAME** | **TABLE\_TYPE** | **REMARKS** |
| 1 | NULL | NULL | NULL | SYSTEM TABLE | NULL |
| 2 | NULL | NULL | NULL | TABLE | NULL |
| 3 | NULL | NULL | NULL | TEMP | NULL |
| 4 | NULL | NULL | NULL | VIEW | NULL |

SQLTables(hstmt,"",0,"",0,"",0,"%",SQL\_NTS)

# 14. Parameters

By use of parameters in a SQL statement (?) the same select may be used for different values. SQLBindParameter assigns values for all ? in the statement.

SQLBindParameter(hstmt,1,1,SQL\_C\_CHAR,SQL\_VARCHAR,20,0,"70000",20,&SQL\_NTS) SQLBindParameter(hstmt,2,1,SQL\_C\_CHAR,SQL\_VARCHAR,20,0,"70100",20,&SQL\_NTS)

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70000 | Side Panel |
| 2 | 70001 | Base |
| 3 | 70002 | Top Panel |
| 4 | 70003 | Rear Panel |
| 5 | 70010 | Wooden Door |
| 6 | 70011 | Glass Door |
| 7 | 70040 | Drawer |
| 8 | 70041 | Shelf |
| 9 | 70060 | Mounting |
| 10 | 70100 | Paint, black |

SELECT No\_, Description

FROM Item

WHERE No\_ >= ? AND No\_ <= ?

The binding can be done before or after the statement is prepared. The number of parameters may be retrieved using:

|  |  |
| --- | --- |
|  | **Number of parameters** |
| 1 | 2 |

SQLNumParams(hstmt,&params)

And a description of the parameter types may be optained by:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Type** | **Precision** | **Scale** | **Nullable** |
| 1 | 12 | 20 | 0 | 0 |
| 2 | 12 | 20 | 0 | 0 |

SQLDescribeParam(hstmt,\*,name,256,&len,&type,&precision,&scale,&nullable)

# 15. Parameters - Data at execution.

Parameters can be bound again with other options:

SQLBindParameter(hstmt,1,1,SQL\_C\_CHAR,SQL\_VARCHAR,1,0,1,20,SQL\_DATA\_AT\_EXEC)

The SQL\_DATA\_AT\_EXEC causes the execution of the statement to return SQL\_NEED DATA:

ERROR:SQL\_NEED\_DATA SELECT No\_, Description

FROM Item

WHERE No\_ <= ?

Whereafter these are transferred by repeated calls to ParamData and Putdata:

|  |  |
| --- | --- |
|  | **Parameter number** |
| 1 | SQL\_NEED\_DATA: 1 |

SQLParamData(hstmt,&nr)

*Query executed - No results returned.*

SQLPutData(hstmt,"70000",SQL\_NTS);

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70000 | Side Panel |

SQLParamData(hstmt,&nr)

Unless this procedure is cancelled with SQL\_CANCEL:

*Query executed - No results returned.*

SQLCancel(hstmt)

The parameters for a statement remains active until the statement is dropped or the parameters removed with:

*Query executed - No results returned.*

SQLFreeStmt(hstmt,SQL\_RESET\_PARAMS)

# 16. Options

The following CONNECT options is used: If SQL\_ACCESS\_MODE is SQL\_MODE\_READ\_ONLY no update is possible.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Value** | **Description** |
| 1 | SQL\_ACCESS\_MODE | 0 | SQL\_MODE\_READ\_WRITE |
| 2 | SQL\_AUTOCOMMIT | 1 | SQL\_AUTOCOMMIT\_ON |
| 3 | SQL\_CURRENT\_QUALIFIER |  |  |
| 4 | SQL\_LOGIN\_TIMEOUT | 15 |  |
| 5 | SQL\_ODBC\_CURSORS | 2 | SQL\_CUR\_USE\_DRIVER |
| 6 | SQL\_OPT\_TRACE | 0 | SQL\_OPT\_TRACE\_OFF |
| 7 | SQL\_OPT\_TRACEFILE | \SQL.LOG |  |
| 8 | SQL\_PACKET\_SIZE | 1024 |  |
| 9 | SQL\_QUIET\_MODE | 0 |  |
| 10 | SQL\_TRANSLATE\_DLL |  |  |
| 11 | SQL\_TRANSLATE\_OPTION | 0 |  |
| 12 | SQL\_TXN\_ISOLATION | 0 |  |

SQLGetConnectOption(hstmt,\*,option)

The following is returned as defult STATEMENT options:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Value** | **Description** |
| 1 | SQL\_ASYNC\_ENABLE | 0 | SQL\_ASYNC\_ENABLE\_OFF |
| 2 | SQL\_BIND\_TYPE | 0 | SQL\_BIND\_BY\_COLUMN |
| 3 | SQL\_CONCURRENCY | 1 | SQL\_CONCUR\_READ\_ONLY |
| 4 | SQL\_CURSOR\_TYPE | 0 | SQL\_CURSOR\_FORWARD\_ONLY |
| 5 | SQL\_KEYSET\_SIZE | 0 |  |
| 6 | SQL\_MAX\_LENGTH | 0 |  |
| 7 | SQL\_MAX\_ROWS | 0 |  |
| 8 | SQL\_NOSCAN | 0 | SQL\_NOSCAN\_OFF |
| 9 | SQL\_QUERY\_TIMEOUT | 0 |  |
| 10 | SQL\_RETRIEVE\_DATA | 1 | SQL\_RD\_ON |
| 11 | SQL\_ROWSET\_SIZE | 1 |  |
| 12 | SQL\_SIMULATE\_CURSOR | 0 | SQL\_SC\_NON\_UNIQUE |
| 13 | SQL\_USE\_BOOKMARKS | 0 | SQL\_UB\_OFF |
| 14 | SQL\_GET\_BOOKMARK | 0 | \* Invalid cursor state |
| 15 | SQL\_ROW\_NUMBER | 0 | \* Invalid cursor state |

SQLGetStmtOption(hstmt,\*,option)

If SQL\_ASYNC\_ENABLE is SQL\_ASYNC\_ON, SQLFetch may return SQL\_STILL\_EXECUTING if more than 1000 records is read during the fetch operation. Below this count is reduced to 10 by the statement option 1000.

*Query executed - No results returned.*

SQLSetStmtOption(hstmt,SQL\_ASYNC\_ENABLE,SQL\_ASYNC\_ENABLE\_ON)  *Query executed - No results returned.*

SQLSetStmtOption(hstmt,1000,10)

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70000 | Side Panel |
| 2 | 70001 | Base |
| 3 | 70002 | Top Panel |
| 4 | 70003 | Rear Panel |
| 5 | 70010 | Wooden Door |
| 6 | 70011 | Glass Door |
| 7 | 70040 | Drawer |
| 8 | 70041 | Shelf |
| 9 | 70060 | Mounting |
| 10 | 70100 | Paint, black |
| 11 | 80100 | Printing Paper |
|  | 2 \* SQL\_STILL\_EXECUTING |  |

SELECT No\_, Description

FROM Item

WHERE (No\_ >= 70000 AND No\_ <= 70100) OR No\_ = 80100

If SQL\_MAX\_ROWS is set a SELECT will try to not exeed this maximum.

*Query executed - No results returned.*

SQLSetStmtOption(hstmt,SQL\_MAX\_ROWS,3)

|  |  |  |
| --- | --- | --- |
|  | **No\_** | **Description** |
| 1 | 70000 | Side Panel |
| 2 | 70001 | Base |
| 3 | 70002 | Top Panel |

SELECT No\_, Description

FROM Item

SQL\_QUERY\_TIMEOUT detemines maximum number of seconds for executing a query

*Query executed - No results returned.*

SQLSetStmtOption(hstmt,SQL\_QUERY\_TIMEOUT,1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No\_** | **Name** | **Search Name** | **Name 2** | **Address** | **Address 2** | **City** |
| 1 | 10000 | London Postmaster | LONDON POSTMASTER |  | 10 North Lake Avenue |  | London |
| 2 | 10000 | London Postmaster | LONDON POSTMASTER |  | 10 North Lake Avenue |  | London |
| 3 | 10000 | London Postmaster | LONDON POSTMASTER |  | 10 North Lake Avenue |  | London |
| Query timeout. |  |  |  |  |  |  |  |

SELECT \*

FROM Vendor, 'Sales Header'

WHERE 'Sales Header'.'Order Date' > { d '2001-01-21' }

# 17. Functions

SQLGetfunctions returns the following values:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Level** | **Supported** | **NOT Supported** |
| 1 | Core | ALL |  |
| 2 | Level 1 | ALL |  |
| 3 | Level 2 |  |  |
| 4 | Level 2 |  |  |
| 5 | Level 2 (DM) |  |  |
| 6 | Level 2 |  |  |
| 7 | Level 2 |  |  |
| 8 | Level 2 |  |  |
| 9 | Level 2 |  |  |
| 10 | Level 2 |  |  |
| 11 | Level 2 |  |  |
| 12 | Level 2 |  |  |
| 13 | Level 2 |  |  |
| 14 | Level 2 |  |  |
| 15 | Level 2 |  |  |
| 16 | Level 2 |  |  |
| 17 | Level 2 |  |  |
| 18 | Level 2 |  |  |
| 19 | Level 2 (DM) |  |  |
| 20 | Level 2 |  |  |

SQLGetFunctions(hstmt,SQL\_API\_ALL\_FUNCTIONS,array)

# 18. Option Fields

The Navision Financials option fields is by standard handled as numeric fields. Futhermore, the actual text may be retrieved using the function

OCODE(xxxx)

where xxxx is the field name.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Price/** | **EXPR-1** |
| 1 | 70000 | Side Panel | 0 | Profit=Price-Cost |
| 2 | 70001 | Base | 0 | Profit=Price-Cost |
| 3 | 70002 | Top Panel | 0 | Profit=Price-Cost |
| 4 | 70003 | Rear Panel | 0 | Profit=Price-Cost |
| 5 | 70010 | Wooden Door | 0 | Profit=Price-Cost |
| 6 | 70011 | Glass Door | 0 | Profit=Price-Cost |
| 7 | 70040 | Drawer | 0 | Profit=Price-Cost |
| 8 | 70041 | Shelf | 0 | Profit=Price-Cost |
| 9 | 70060 | Mounting | 0 | Profit=Price-Cost |
| 10 | 70100 | Paint, black | 0 | Profit=Price-Cost |
| 11 | 70101 | Paint, yellow | 0 | Profit=Price-Cost |
| 12 | 70102 | Paint, blue | 0 | Profit=Price-Cost |
| 13 | 70103 | Paint, red | 0 | Profit=Price-Cost |
| 14 | 70104 | Paint, green | 0 | Profit=Price-Cost |
| 15 | 70200 | Hinge | 0 | Profit=Price-Cost |
| 16 | 70201 | Doorknob | 0 | Profit=Price-Cost |
| 17 | 80100 | Printing Paper | 0 | Profit=Price-Cost |
| 18 | 1896-S | ATHENS Desk | 0 | Profit=Price-Cost |
| 19 | 1900-S | PARIS Guest Chair, black | 0 | Profit=Price-Cost |
| 20 | 1906-S | ATHENS Mobile Pedestal | 0 | Profit=Price-Cost |
| 21 | 1908-S | LONDON Swivel Chair, blue | 0 | Profit=Price-Cost |
| 22 | 1920-S | ANTWERP Conference Table | 0 | Profit=Price-Cost |
| 23 | 1924-W | CHAMONIX Base Storage Unit | 0 | Profit=Price-Cost |
| 24 | 1928-S | AMSTERDAM Lamp | 0 | Profit=Price-Cost |
| 25 | 1928-W | ST.MORITZ Storage Unit/Drawers | 0 | Profit=Price-Cost |
| 26 | 1936-S | BERLIN Guest Chair, yellow | 0 | Profit=Price-Cost |
| 27 | 1952-W | OSLO Storage Unit/Shelf | 0 | Profit=Price-Cost |
| 28 | 1960-S | ROME Guest Chair, green | 0 | Profit=Price-Cost |
| 29 | 1964-S | TOKYO Guest Chair, blue | 0 | Profit=Price-Cost |
| 30 | 1964-W | INNSBRUCK Storage Unit/G.Door | 0 | Profit=Price-Cost |
| 31 | 1968-S | MEXICO Swivel Chair, black | 0 | Profit=Price-Cost |
| 32 | 1968-W | GRENOBLE Whiteboard, red | 0 | Profit=Price-Cost |
| 33 | 1972-S | MUNICH Swivel Chair, yellow | 0 | Profit=Price-Cost |
| 34 | 1972-W | SAPPORO Whiteboard, black | 0 | Profit=Price-Cost |
| 35 | 1976-W | INNSBRUCK Storage Unit/W.Door | 0 | Profit=Price-Cost |
| 36 | 1980-S | MOSCOW Swivel Chair, red | 0 | Profit=Price-Cost |
| 37 | 1984-W | SARAJEVO Whiteboard, blue | 0 | Profit=Price-Cost |
| 38 | 1988-S | SEOUL Guest Chair, red | 0 | Profit=Price-Cost |
| 39 | 1988-W | CALGARY Whiteboard, yellow | 0 | Profit=Price-Cost |
| 40 | 1992-W | ALBERTVILLE Whiteboard, green | 0 | Profit=Price-Cost |
| 41 | 1996-S | ATLANTA Whiteboard, base | 0 | Profit=Price-Cost |
| 42 | 2000-S | SIDNEY Swivel Chair, green | 0 | Profit=Price-Cost |
| 43 | 766BC-A | OLYMPIC Conference System | 1 | Price=Cost+Profit |
| 44 | 766BC-B | OLYMPIC Office System | 1 | Price=Cost+Profit |
| 45 | 766BC-C | OLYMPIC Storage System | 1 | Price=Cost+Profit |

SELECT No\_, Description, 'Price/Profit Calculation', OCODE('Price/Profit Calculation')

FROM Item

Even more simple you may use the calculated field named where ' - Text' is added to the name.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **No\_** | **Description** | **Price/** | **Price/Profit Calculation - Text** |
| 1 | 70000 | Side Panel | 0 | Profit=Price-Cost |
| 2 | 70001 | Base | 0 | Profit=Price-Cost |
| 3 | 70002 | Top Panel | 0 | Profit=Price-Cost |
| 4 | 70003 | Rear Panel | 0 | Profit=Price-Cost |
| 5 | 70010 | Wooden Door | 0 | Profit=Price-Cost |
| 6 | 70011 | Glass Door | 0 | Profit=Price-Cost |
| 7 | 70040 | Drawer | 0 | Profit=Price-Cost |
| 8 | 70041 | Shelf | 0 | Profit=Price-Cost |
| 9 | 70060 | Mounting | 0 | Profit=Price-Cost |
| 10 | 70100 | Paint, black | 0 | Profit=Price-Cost |
| 11 | 70101 | Paint, yellow | 0 | Profit=Price-Cost |
| 12 | 70102 | Paint, blue | 0 | Profit=Price-Cost |
| 13 | 70103 | Paint, red | 0 | Profit=Price-Cost |
| 14 | 70104 | Paint, green | 0 | Profit=Price-Cost |
| 15 | 70200 | Hinge | 0 | Profit=Price-Cost |
| 16 | 70201 | Doorknob | 0 | Profit=Price-Cost |
| 17 | 80100 | Printing Paper | 0 | Profit=Price-Cost |
| 18 | 1896-S | ATHENS Desk | 0 | Profit=Price-Cost |
| 19 | 1900-S | PARIS Guest Chair, black | 0 | Profit=Price-Cost |
| 20 | 1906-S | ATHENS Mobile Pedestal | 0 | Profit=Price-Cost |
| 21 | 1908-S | LONDON Swivel Chair, blue | 0 | Profit=Price-Cost |
| 22 | 1920-S | ANTWERP Conference Table | 0 | Profit=Price-Cost |
| 23 | 1924-W | CHAMONIX Base Storage Unit | 0 | Profit=Price-Cost |
| 24 | 1928-S | AMSTERDAM Lamp | 0 | Profit=Price-Cost |
| 25 | 1928-W | ST.MORITZ Storage Unit/Drawers | 0 | Profit=Price-Cost |
| 26 | 1936-S | BERLIN Guest Chair, yellow | 0 | Profit=Price-Cost |
| 27 | 1952-W | OSLO Storage Unit/Shelf | 0 | Profit=Price-Cost |
| 28 | 1960-S | ROME Guest Chair, green | 0 | Profit=Price-Cost |
| 29 | 1964-S | TOKYO Guest Chair, blue | 0 | Profit=Price-Cost |
| 30 | 1964-W | INNSBRUCK Storage Unit/G.Door | 0 | Profit=Price-Cost |
| 31 | 1968-S | MEXICO Swivel Chair, black | 0 | Profit=Price-Cost |
| 32 | 1968-W | GRENOBLE Whiteboard, red | 0 | Profit=Price-Cost |
| 33 | 1972-S | MUNICH Swivel Chair, yellow | 0 | Profit=Price-Cost |
| 34 | 1972-W | SAPPORO Whiteboard, black | 0 | Profit=Price-Cost |
| 35 | 1976-W | INNSBRUCK Storage Unit/W.Door | 0 | Profit=Price-Cost |
| 36 | 1980-S | MOSCOW Swivel Chair, red | 0 | Profit=Price-Cost |
| 37 | 1984-W | SARAJEVO Whiteboard, blue | 0 | Profit=Price-Cost |
| 38 | 1988-S | SEOUL Guest Chair, red | 0 | Profit=Price-Cost |
| 39 | 1988-W | CALGARY Whiteboard, yellow | 0 | Profit=Price-Cost |
| 40 | 1992-W | ALBERTVILLE Whiteboard, green | 0 | Profit=Price-Cost |
| 41 | 1996-S | ATLANTA Whiteboard, base | 0 | Profit=Price-Cost |
| 42 | 2000-S | SIDNEY Swivel Chair, green | 0 | Profit=Price-Cost |
| 43 | 766BC-A | OLYMPIC Conference System | 1 | Price=Cost+Profit |
| 44 | 766BC-B | OLYMPIC Office System | 1 | Price=Cost+Profit |
| 45 | 766BC-C | OLYMPIC Storage System | 1 | Price=Cost+Profit |

SELECT No\_, Description, 'Price/Profit Calculation', 'Price/Profit Calculation - Text'

FROM Item

# 19. SQLInfo

SQLInfo returns the following:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name** | **Value** | **Description** |
| 1 | SQL\_ACCESSIBLE\_PROCEDURES | N | May be procedures user cannot |
| 2 | SQL\_ACCESSIBLE\_TABLES | N | Not all tables may be accessed |
| 3 | SQL\_ACTIVE\_CONNECTIONS | 0 | No limit |
| 4 | SQL\_ACTIVE\_STATEMENTS | 0 | No limit |
| 5 | SQL\_ALTER\_TABLE | 3 | SQL\_AT\_ADD\_COLUMN |
|  |  |  | SQL\_AT\_DROP\_COLUMN |
| 6 | SQL\_BOOKMARK\_PERSISTENCE | 0 |  |
| 7 | SQL\_COLUMN\_ALIAS | N | Alias not supported |
| 8 | SQL\_CONCAT\_NULL\_BEHAVIOR | 1 | SQL\_CB\_NON\_NULL |
| 9 | SQL\_CONVERT\_BIGINT | 0 |  |
| 10 | SQL\_CONVERT\_BINARY | 0 |  |
| 11 | SQL\_CONVERT\_BIT | 0 |  |
| 12 | SQL\_CONVERT\_CHAR | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 13 | SQL\_CONVERT\_DATE | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 14 | SQL\_CONVERT\_DECIMAL | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 15 | SQL\_CONVERT\_DOUBLE | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 16 | SQL\_CONVERT\_FLOAT | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 17 | SQL\_CONVERT\_FUNCTIONS | 1 | SQL\_FN\_CVT\_CONVERT |
| 18 | SQL\_CONVERT\_INTEGER | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 19 | SQL\_CONVERT\_LONGVARBINARY | 0 |  |
| 20 | SQL\_CONVERT\_LONGVARCHAR | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 21 | SQL\_CONVERT\_NUMERIC | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 22 | SQL\_CONVERT\_REAL | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 23 | SQL\_CONVERT\_SMALLINT | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 24 | SQL\_CONVERT\_TIME | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 25 | SQL\_CONVERT\_TIMESTAMP | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 26 | SQL\_CONVERT\_TINYINT | 0 |  |
| 27 | SQL\_CONVERT\_VARBINARY | 0 |  |
| 28 | SQL\_CONVERT\_VARCHAR | 230399 | SQL\_CVT\_CHAR |
|  |  |  | SQL\_CVT\_NUMERIC |
|  |  |  | SQL\_CVT\_DECIMAL |
|  |  |  | SQL\_CVT\_INTEGER |
|  |  |  | SQL\_CVT\_SMALLINT |
|  |  |  | SQL\_CVT\_FLOAT |
|  |  |  | SQL\_CVT\_REAL |
|  |  |  | SQL\_CVT\_DOUBLE |
|  |  |  | SQL\_CVT\_VARCHAR |
|  |  |  | SQL\_CVT\_LONGVARCHAR |
|  |  |  | SQL\_CVT\_DATE |
|  |  |  | SQL\_CVT\_TIME |
|  |  |  | SQL\_CVT\_TIMESTAMP |
| 29 | SQL\_CORRELATION\_NAME | 2 | SQL\_CN\_ANY |
| 30 | SQL\_CURSOR\_COMMIT\_BEHAVIOR | 2 | SQL\_CB\_PRESERVE |
| 31 | SQL\_CURSOR\_ROLLBACK\_BEHAVIOR | 2 | SQL\_CB\_PRESERVE |
| 32 | SQL\_DATA\_SOURCE\_NAME | SWNav32s |  |
| 33 | SQL\_DATA\_SOURCE\_READ\_ONLY | N | Read/Write |
| 34 | SQL\_DATABASE\_NAME |  |  |
| 35 | SQL\_DBMS\_NAME | SW-Tools |  |
| 36 | SQL\_DBMS\_VER | 08.10.0009 |  |
| 37 | SQL\_DEFAULT\_TXN\_ISOLATION | 0 |  |
| 38 | SQL\_DRIVER\_HDBC | 16699120 |  |
| 39 | SQL\_DRIVER\_HENV | 17013692 |  |
| 40 | SQL\_DRIVER\_HLIB | 79691776 |  |
| 41 | SQL\_DRIVER\_HSTMT | 0 | \* Invalid argument value |
| 42 | SQL\_DRIVER\_NAME | SWODBC32.dll |  |
| 43 | SQL\_DRIVER\_ODBC\_VER | 02.10 |  |
| 44 | SQL\_DRIVER\_VER | 08.10.0009 |  |
| 45 | SQL\_EXPRESSIONS\_IN\_ORDERBY | Y | Yes, Expressions in orderby |
| 46 | SQL\_FETCH\_DIRECTION | 1 | SQL\_FD\_FETCH\_NEXT |
| 47 | SQL\_FILE\_USAGE | 0 | SQL\_FILE\_NOT\_SUPPORTED |
| 48 | SQL\_GETDATA\_EXTENSIONS | 11 | SQL\_GD\_ANY\_COLUMN |
|  |  |  | SQL\_GD\_ANY\_ORDER |
|  |  |  | SQL\_GD\_BOUND |
| 49 | SQL\_GROUP\_BY | 3 | SQL\_GB\_GROUP\_BY\_EQUALS\_SELECT |
|  |  |  | SQL\_GB\_GROUP\_BY\_CONTAINS\_SELEC |
| 50 | SQL\_IDENTIFIER\_CASE | 3 | SQL\_IC\_UPPER |
|  |  |  | SQL\_IC\_LOWER |
| 51 | SQL\_IDENTIFIER\_QUOTE\_CHAR | ' |  |
| 52 | SQL\_KEYWORDS | UPPER,EXPORT,IMPORT |  |
| 53 | SQL\_LIKE\_ESCAPE\_CLAUSE | Y | LIKE fully supported |
| 54 | SQL\_LOCK\_TYPES | 0 |  |
| 55 | SQL\_MAX\_BINARY\_LITERAL\_LEN | 64 |  |
| 56 | SQL\_MAX\_CHAR\_LITERAL\_LEN | 64 |  |
| 57 | SQL\_MAX\_COLUMNS\_IN\_GROUP\_BY | 499 |  |
| 58 | SQL\_MAX\_COLUMNS\_IN\_INDEX | 499 |  |
| 59 | SQL\_MAX\_COLUMNS\_IN\_ORDER\_BY | 499 |  |
| 60 | SQL\_MAX\_COLUMNS\_IN\_SELECT | 499 |  |
| 61 | SQL\_MAX\_COLUMNS\_IN\_TABLE | 499 |  |
| 62 | SQL\_MAX\_COLUMN\_NAME\_LEN | 64 |  |
| 63 | SQL\_MAX\_CURSOR\_NAME\_LEN | 18 |  |
| 64 | SQL\_MAX\_INDEX\_SIZE | 499 |  |
| 65 | SQL\_MAX\_OWNER\_NAME\_LEN | 0 | No limit |
| 66 | SQL\_MAX\_PROCEDURE\_NAME\_LEN | 0 | No limit |
| 67 | SQL\_MAX\_QUALIFIER\_NAME\_LEN | 0 | No limit |
| 68 | SQL\_MAX\_ROW\_SIZE | 0 | No limit |
| 69 | SQL\_MAX\_ROW\_SIZE\_INCLUDES\_LONG | Y | SQL\_LONGVARCHAR included in MA |
| 70 | SQL\_MAX\_STATEMENT\_LEN | 0 | No limit |
| 71 | SQL\_MAX\_TABLE\_NAME\_LEN | 64 |  |
| 72 | SQL\_MAX\_TABLES\_IN\_SELECT | 64 |  |
| 73 | SQL\_MAX\_USER\_NAME\_LEN | 64 |  |
| 74 | SQL\_MULT\_RESULT\_SETS | N | No support |
| 75 | SQL\_MULTIPLE\_ACTIVE\_TXN | Y | More conn.with active trans |
| 76 | SQL\_NEED\_LONG\_DATA\_LEN | N | No need for long data length |
| 77 | SQL\_NON\_NULLABLE\_COLUMNS | 0 | SQL\_NCC\_NULL |
| 78 | SQL\_NULL\_COLLATION | 1 | SQL\_NC\_LOW |
| 79 | SQL\_NUMERIC\_FUNCTIONS | 16777215 | SQL\_FN\_NUM\_ABS |
|  |  |  | SQL\_FN\_NUM\_ACOS |
|  |  |  | SQL\_FN\_NUM\_ASIN |
|  |  |  | SQL\_FN\_NUM\_ATAN |
|  |  |  | SQL\_FN\_NUM\_ATAN2 |
|  |  |  | SQL\_FN\_NUM\_CEILING |
|  |  |  | SQL\_FN\_NUM\_COS |
|  |  |  | SQL\_FN\_NUM\_COT |
|  |  |  | SQL\_FN\_NUM\_EXP |
|  |  |  | SQL\_FN\_NUM\_FLOOR |
|  |  |  | SQL\_FN\_NUM\_LOG |
|  |  |  | SQL\_FN\_NUM\_MOD |
|  |  |  | SQL\_FN\_NUM\_SIGN |
|  |  |  | SQL\_FN\_NUM\_SIN |
|  |  |  | SQL\_FN\_NUM\_SQRT |
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|  |  |  | SQL\_FN\_NUM\_PI |
|  |  |  | SQL\_FN\_NUM\_RAND |
|  |  |  | SQL\_FN\_NUM\_DEGREES |
|  |  |  | SQL\_FN\_NUM\_LOG10 |
|  |  |  | SQL\_FN\_NUM\_POWER |
|  |  |  | SQL\_FN\_NUM\_RADIANS |
|  |  |  | SQL\_FN\_NUM\_ROUND |
|  |  |  | SQL\_FN\_NUM\_TRUNCATE |
| 80 | SQL\_ODBC\_API\_CONFORMANCE | 1 | SQL\_OAC\_LEVEL1 |
| 81 | SQL\_ODBC\_SAG\_CLI\_CONFORMANCE | 1 | SQL\_OSCC\_COMPLIANT |
| 82 | SQL\_ODBC\_SQL\_CONFORMANCE | 1 | SQL\_OSC\_CORE |
| 83 | SQL\_ODBC\_SQL\_OPT\_IEF | N | No Optional Integrity Enhancem |
| 84 | SQL\_ODBC\_VER | 03.51.0000 |  |
| 85 | SQL\_ORDER\_BY\_COLUMNS\_IN\_SELECT | N | ORDER BY free |
| 86 | SQL\_OUTER\_JOINS | Y | OUTER JOINS Supported |
| 87 | SQL\_SQL\_OJ\_CAPABILITIES | 1 | SQL\_OJ\_LEFT |
| 88 | SQL\_OWNER\_TERM | OWNER |  |
| 89 | SQL\_OWNER\_USAGE | 0 |  |
| 90 | SQL\_POS\_OPERATIONS | 0 |  |
| 91 | SQL\_POSITIONED\_STATEMENTS | 7 | SQL\_PS\_POSITIONED\_DELETE |
|  |  |  | SQL\_PS\_POSITIONED\_UPDATE |
|  |  |  | SQL\_PS\_SELECT\_FOR\_UPDATE |
| 92 | SQL\_PROCEDURE\_TERM | PROCEDURE |  |
| 93 | SQL\_PROCEDURES | N | Procedures NOT supported |
| 94 | SQL\_QUALIFIER\_LOCATION | 1 | SQL\_QL\_START |
| 95 | SQL\_QUALIFIER\_NAME\_SEPARATOR | \ |  |
| 96 | SQL\_QUALIFIER\_TERM | DIRECTORY |  |
| 97 | SQL\_QUALIFIER\_USAGE | 0 |  |
| 98 | SQL\_QUOTED\_IDENTIFIER\_CASE | 3 | SQL\_IC\_UPPER |
|  |  |  | SQL\_IC\_LOWER |
| 99 | SQL\_ROW\_UPDATES | N | No |
| 100 | SQL\_SCROLL\_CONCURRENCY | 0 |  |
| 101 | SQL\_SCROLL\_OPTIONS | 0 |  |
| 102 | SQL\_SEARCH\_PATTERN\_ESCAPE | \ |  |
| 103 | SQL\_SERVER\_NAME | SW-Tools |  |
| 104 | SQL\_SPECIAL\_CHARACTERS | #ÆØÅæøåÄÖÜäöüß |  |
| 105 | SQL\_STATIC\_SENSITIVITY | 0 |  |
| 106 | SQL\_STRING\_FUNCTIONS | 294911 | SQL\_FN\_STR\_CONCAT |
|  |  |  | SQL\_FN\_STR\_INSERT |
|  |  |  | SQL\_FN\_STR\_LEFT |
|  |  |  | SQL\_FN\_STR\_LTRIM |
|  |  |  | SQL\_FN\_STR\_LENGTH |
|  |  |  | SQL\_FN\_STR\_LOCATE |
|  |  |  | SQL\_FN\_STR\_LCASE |
|  |  |  | SQL\_FN\_STR\_REPEAT |
|  |  |  | SQL\_FN\_STR\_REPLACE |
|  |  |  | SQL\_FN\_STR\_RIGHT |
|  |  |  | SQL\_FN\_STR\_RTRIM |
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|  |  |  | SQL\_FN\_STR\_UCASE |
|  |  |  | SQL\_FN\_STR\_ASCII |
|  |  |  | SQL\_FN\_STR\_CHAR |
|  |  |  | SQL\_FN\_STR\_SPACE |
| 107 | SQL\_SUBQUERIES | 31 | SQL\_SQ\_COMPARISON |
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|  |  |  | SQL\_SQ\_IN |
|  |  |  | SQL\_SQ\_QUANTIFIED |
|  |  |  | SQL\_SQ\_CORRELATED\_SUBQUERIES |
| 108 | SQL\_SYSTEM\_FUNCTIONS | 7 | SQL\_FN\_SYS\_USERNAME |
|  |  |  | SQL\_FN\_SYS\_DBNAME |
|  |  |  | SQL\_FN\_SYS\_IFNULL |
| 109 | SQL\_TABLE\_TERM | TABLE |  |
| 110 | SQL\_TIMEDATE\_ADD\_INTERVALS | 0 |  |
| 111 | SQL\_TIMEDATE\_DIFF\_INTERVALS | 0 |  |
| 112 | SQL\_TIMEDATE\_FUNCTIONS | 106495 | SQL\_FN\_TD\_NOW |
|  |  |  | SQL\_FN\_TD\_CURDATE |
|  |  |  | SQL\_FN\_TD\_DAYOFMONTH |
|  |  |  | SQL\_FN\_TD\_DAYOFWEEK |
|  |  |  | SQL\_FN\_TD\_DAYOFYEAR |
|  |  |  | SQL\_FN\_TD\_MONTH |
|  |  |  | SQL\_FN\_TD\_QUARTER |
|  |  |  | SQL\_FN\_TD\_WEEK |
|  |  |  | SQL\_FN\_TD\_YEAR |
|  |  |  | SQL\_FN\_TD\_CURTIME |
|  |  |  | SQL\_FN\_TD\_HOUR |
|  |  |  | SQL\_FN\_TD\_MINUTE |
|  |  |  | SQL\_FN\_TD\_SECOND |
|  |  |  | SQL\_FN\_TD\_DAYNAME |
|  |  |  | SQL\_FN\_TD\_MONTHNAME |
| 113 | SQL\_TXN\_CAPABLE | 0 | SQL\_TC\_NONE |
| 114 | SQL\_TXN\_ISOLATION\_OPTION | 0 |  |
| 115 | SQL\_UNION | 3 | SQL\_U\_UNION |
|  |  |  | SQL\_U\_UNION\_ALL |
| 116 | SQL\_USER\_NAME |  |  |

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