

Informix SQL Quick Reference

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Introduction

This appendix provides a quick reference for the Informix SQL language. This appendix is intended to be a guide to various SQL commands referenced within this book. For more information on InformixTM products and the SQL language implemented as part of the Informix Dynamic Server, one can visit the Informix website at <http://www.informix.com>.

SQL Statements

CREATE DATABASE

Syntax: CREATE DATABASE db_name
[with (options)]

Description: The CREATE DATABASE statement creates a new database of the name specified by db_name. The name of the database must be unique on the installation and the name cannot be a keyword.

CREATE FUNCTION

Syntax: CREATE FUNCTION func_name[param_list]
returns type_name
[with (modifier [, modifier . . .])]
as {sql_statement | sql_statement_list} |
external name file_path_spec [(function_name)]
language {C | c} [[not] variant]

Description: The CREATE FUNCTION statement registers a new function in the database. The function body may be written in SQL or C.

CREATE TABLE

Syntax: CREATE TABLE table_name
[with (options)]
[of new type type_name]
({column_description | like table_name}
[, column_description . . . |, like table name . . .}
[table_constraints_list])
[under table_name [, table_name . . .]]
[archive]

Description: The CREATE TABLE statement creates a table in the database. The table_name of the table being created must be unique among all table, view, and index names within the user's current schema.

CREATE ROW TYPE

Syntax: CREATE ROW TYPE type_name
([internallength = {integer_constant | variable},]
[input = func_name,]
[output = func_name]
[, modifierb [, modifier . . .]])
[under type_name [, type_name . . .]]

Description: The CREATE ROW TYPE statement creates a new type in the database. The type_name is the name of the type being created. The type_name must be unique within the schema in which it was created.

CREATE INDEX

Syntax: CREATE INDEX index_name_ix ON table_name
([row_name {ASC | DESC}, . . .]) USING
[index_method];

Description: The CREATE INDEX statement assigns an indexing marker to the data element (row_name) in the table table_name. Indices can be ascending (ASC) or descending (DESC), and only one of each type may be assigned to a given row. The argument index_type describes how the index is to be structured for search/retrieval purposes and may assume the values 'B_TREE,' 'R_TREE.'

DELETE

Syntax: DELETE from {table_name | only
(table_name)}
[using suggestion_list]
[where search_condition]

Description: The DELETE statement removes rows from a table.

DROP

Syntax: DROP {database db_name | table table_name |
type type_desc | func_name (param_list)}

Description: The DROP statement destroys the specified database and removes the specified table, type, and function from the database.

INSERT

Syntax: INSERT into table_name
[(col_name [, col_name . . .])]
[using suggestion_list]

{values (expression [, expression . . .]) | SELECT_stmt|

Description: The INSERT statement adds rows to a table.

RETURN

Syntax: RETURN expression

Description: The RETURN statement retrieves the results from a function or query. If RETURN is used on a function, it returns a scalar value if that is what the function returns; otherwise, it returns the name of a cursor containing all the returned values.

SELECT

Syntax: SELECT [unique | distinct] SELECT_list
from from_list
[using suggestion_list]
[where search_condition]
[group by expression, [, expression]]
[having search_condition]
[order by order_spec]
[union [all] SELECT_statement]

Description: The SELECT statement retrieves the data specified in the SELECT_list from the tables, views, or versions specified in the from_list.