Cheatography

SQL Cheat Sheet

by Katie via cheatography.com/47088/cs/13588/

SELECT DATA FROM A TABLE

SELECT col1, col2 FROM table;

Selecting data in columns1, columns1 from a specified table

SELECT * FROM table;

Selecting ALL data from a specified table

SELECT col1, col2 FROM table WHERE condition;

Selecting data in columns1, columns1 from a specified table, with a condition(like a filter)

SELECT DISTINCT col1 FROM table WHERE condition;

Selecting distinct rows from a specified table

SELECT col1, col2 FROM table ORDER BY col1 ASC [DESC];

Display the data in ascending or descending order

SELECT col1, aggregate(col2) FROM table GROUP BY col1;

Group rows using an aggregate* function

SELECT col1, aggregate(col2) FROM table GROUP BY col1 HAVING condition;

Filter groups using HAVING with an aggregate function

SELECTING DATA FROM MULTIPLE TABLES

SELECT col1, col2 FROM table1 INNER JOIN table2 ON condition;

Returning data from different tables, with a specific condition

SELECT col1, col2 FROM table1 LEFT JOIN table2 ON condition;

Returning data from left table matching data in table2, with a specific condition

SELECTING DATA FROM MULTIPLE TABLES (cont)

SELECT col1, col2 FROM table1 RIGHT JOIN table2 ON condition;

Returning data from right table matching data in table2, with a specific condition

SELECT col1, col2 FROM table1 FULL OUTER JOIN table2 ON condition;

Returning data from left & right table when both sides match, with a specific condition

CHECK FOR NULL VALUES

SELECT col1, col2 FROM table WHERE col1 IS NOT NULL;	Check if the value is not empty
SELECT col1, col2 FROM table WHERE col1 IS NULL;	Check if the value is empty

AGGREGATE FUNCTIONS

AVG()	Returns the Average
COUNT()	Returns the Number of rows
FIRST()	Returns the First alue in a column
LAST()	Returns the Last alue in a column
MAX()	Returns the Highest value
MIN()	Returns the Lowest value
SUM()	Returns the Sum of all values

CREATING & EDITING TABLES

CREATE TABLE PERSON (ID VARCHAR2(15), Name VARCHAR2(20), Phone NUMBER PRIMARY KEY (ID));

Create a new table with three columns

INSERT INTO Table1(COL LIST) VALUES(VALUES LIST);

Insert a row into a table

INSERT INTO Table1(COL LIST) VALUES(VALUE LIST),-(VALUE LIST),....;

Insert multiple rows into a table

UPDATE Table1 SET Col1 =newValue;

Updates a new value in col1 for all rows

DELETE FROM Table1;

Delete all data in a table

DELETE FROM Table1 WHERE specified condition;

Delete a subset of rows in a table

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