SQL Cheat Sheet: FUNCTIONS and Implicit JOIN



Command	Syntax	Description	Example
COUNT	SELECT COUNT(column_name) FROM table_name WHERE condition;	COUNT function returns the number of rows that matches a specified criterion.	SELECT COUNT(dep_id) FROM employees
AVG	SELECT AVG(column_name) FROM table_name WHERE condition;	AVG function returns the average value of a numeric column.	SELECT AVG(salary) FROM employees;
SUM	SELECT SUM(column_name) FROM table_name WHERE condition;	SUM function returns the total sum of a numeric column.	SELECT SUM(salary) FROM employees;
MIN	SELECT MIN(column_name) FROM table_name WHERE condition;	MIN function returns the smallest value of the SELECTed column.	SELECT MIN(salary) FROM employees;
MAX	SELECT MAX(column_name) FROM table_name WHERE condition;	MAX function returns the largest value of the SELECTed column.	SELECT MAX(salary) FROM employees;
ROUND	SELECT ROUND(2number, decimals, operation) AS RoundValue;	ROUND function rounds a number to a specified number of decimal places.	SELECT ROUND(salary) FROM employees
LENGTH	SELECT LENGTH(column_name) FROM table;	LENGTH function returns the length of a string (in bytes).	<pre>SELECT LENGTH(f_name) FROM employees;</pre>
UCASE	<pre>SELECT UCASE(column_name) FROM table;</pre>	UCASE function that displays the column name in each table in uppercase.	SELECT UCASE(f_name) FROM employees
DISTINCT	<pre>SELECT DISTINCT(column_name) FROM table;</pre>	DISTINCT function is used to display data without duplicates.	<pre>SELECT DISTINCT(UCASE(f_name)) FROM employees;</pre>
DAY	SELECT DAY(column_name) FROM table	DAY function returns the day of the month for a given date	<pre>SELECT DAY(b_date) FROM employees where emp_id = 'E1002';</pre>
CURRENT DATE	SELECT (CURRENT DATE - COLUMN) FROM table;	CURRENT DATE is used to display the current date. This can be subtracted from the previous date to get the difference.	SELECT YEAR(CURRENT DATE - b_date) As AGE, CURRENT_DATE, b_date FROM employees;
Subquery	SELECT column_name [, column_name] FROM table1 [, table2] WHERE column_name OPERATOR (SELECT column_name [, column_name] FROM table1 [, table2] [WHERE])	Subquery is a query within another SQL query and embedded within the WHERE clause. A subquery is used to return data that will be used in the main query as a condition to further restrict the data to be retrieved.	SELECT emp_id, fmame, lname, salary FROM employees where salary < (SELECT AVG(salary) FROM employees) SELECT * FROM (SELECT emp_id, f_name, l_name, dep_id FROM employees) AS emp4all;
			<pre>SELECT * FROM employees WHERE job_i IN (SELECT job_ident FROM jobs);</pre>
Implicit Inner Join	<pre>SELECT column_name(s) FROM table1, table2 WHERE table1.column_name = table2.column_name;</pre>	Implicit Inner Join combines the two or more records but displays only matching values in both tables. Inner join applies only the specified columns.	<pre>SELECT * FROM employees, jobs where employees.job_id = jobs.job_ident;</pre>

Implicit	SELECT column_name(s) FROM table1,	Implicit Cross Join defines as a	SELECT * FROM employees, jobs;	
Cross Join	table2;	Cartesian product where the number		
		of rows in the first table multiplied by		
		the number of rows in the second		
		table		

Author(s)

Lakshmi Holla

Changelog

Date	Version	Changed by	Change Description
2021-07-28	1.0	Lakshmi Holla	Initial Version