

SQL Cheat Sheet: Basics - SELECT, INSERT, UPDATE, DELETE, COUNT, DISTINCT, LIMIT



IBM Developer
SKILLS NETWORK

Command	Syntax	Description	Example
SELECT	<code>SELECT column1, column2, ... FROM table_name;</code>	<code>SELECT</code> statement is used to fetch data from a database.	<code>SELECT city FROM placeofinterest;</code>
WHERE	<code>SELECT column1, column2, ...FROM table_name WHERE condition;</code>	<code>WHERE</code> clause is used to extract only those records that fulfill a specified condition.	<code>SELECT * FROM placeofinterest WHERE city == 'Rome' ;</code>
COUNT	<code>SELECT COUNT * FROM table_name ;</code>	<code>COUNT</code> is a function that takes the name of a column as argument and counts the number of rows when the column is not NULL.	<code>SELECT COUNT(country) FROM placeofinterest WHERE country='Canada';</code>
DISTINCT	<code>SELECT DISTINCT columnname FROM table_name;</code>	<code>DISTINCT</code> function is used to specify that the statement is a query which returns unique values in specified columns.	<code>SELECT DISTINCT country FROM placeofinterest WHERE type='historical';</code>
LIMIT	<code>SELECT * FROM table_name LIMIT number;</code>	<code>LIMIT</code> is a clause to specify the maximum number of rows the result set must have.	<code>SELECT * FROM placeofinterest WHERE airport="pearson" LIMIT 5;</code>
INSERT	<code>INSERT INTO table_name (column1,column2,column3...) VALUES(value1,value2,value3...);</code>	<code>INSERT</code> is used to insert new rows in the table.	<code>INSERT INTO placeofinterest (name,type,city,country,airport) VALUES('Niagara Waterfalls','Nature','Toronto','Canada','Pearson');</code>
UPDATE	<code>UPDATE table_name SET[[column1]=[VALUES]] WHERE [condition];</code>	<code>UPDATE</code> used to update the rows in the table.	<code>UPDATE placeofinterest SET name = 'Niagara Falls' WHERE name = "Niagara Waterfalls";</code>
DELETE	<code>DELETE FROM table_name WHERE [condition];</code>	<code>DELETE</code> statement is used to remove rows from the table which are specified in the <code>WHERE</code> condition.	<code>DELETE FROM placeofinterest WHERE city IN ('Rome','Vienna');</code>

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Changelog

Date	Version	Changed by	Change Description
2021-07-27	1.0	Malika	Initial Version