

## SQL Cheat Sheet: Basics

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

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