

MySQL Cheat Sheet

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What is MySQL?

MySQL is an open-source relational database management system (RDBMS) known for its fast performance and reliability. Developed by Oracle Corporation, it's widely used for web applications and online gaming.

Sample Data

The dataset contains details of the world's highest-altitude peaks, measured by their elevation. Each row contains the location and the peak's named coordinates.

Location	Longitude (lon)	Lat, latitude (lat)	Altitude (altitude)	name	8, peaks
Elbros	44.7	42.4	5642	Mount Elbrus	1
Mount Everest	86.9	28.0	8848	Mount Everest	2
Denali	150.0	63.4	6190	Denali	3
Shivalik Range	76.8	30.3	5974	Shivalik Range	4
Roanoke	79.6	36.3	5959	Roanoke	5
Monte-Rosso	10.0	45.7	3808	Monte-Rosso	6

Querying tables

Get all the values from a table using `SELECT *`

```
SELECT *  
FROM Mountains;
```

Get a column from a table by name using `SELECT col`

```
SELECT Location  
FROM Mountains;
```

Get multiple columns from a table by name using `SELECT col1, col2, ...`

```
SELECT Location, Altitude, lon  
FROM Mountains;
```

Sort the values in ascending order using `ORDER BY col ASC`

```
SELECT Location, Altitude, lon FROM Mountains  
ORDER BY Altitude;
```

Sort the values in descending order of values in a column using `ORDER BY col DESC`

```
SELECT Location, Lat, longitude FROM  
Mountains  
ORDER BY Lat, longitude DESC;
```

Arrange the rows in ascending order of values in a column using `ORDER BY col ASC`

```
SELECT Location, Lat, longitude FROM  
Mountains  
ORDER BY Lat, longitude ASC;
```

Get the number of rows returned with `COUNT()`

```
SELECT *  
FROM Mountains  
LIMIT 5
```

Get unique values with `SELECT DISTINCT`

```
SELECT DISTINCT name  
FROM Mountains;
```

Filtering Data

Filtering on numeric columns

Get rows where a column's greater than a value with `WHERE col > v`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude > 5000;
```

Get rows where a column's greater than or equal to a value with `WHERE col >= v`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude >= 5000;
```

Get rows where a column's less than a value with `WHERE col < v`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude < 5000;
```

Get rows where a column's equal to a value with `WHERE col = v`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude = 5000;
```

Get rows where a column's not equal to a value with `WHERE col != v` or `WHERE col <> v`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude != 5000;
```

Get rows where a column's between two values (inclusive) with `WHERE col BETWEEN v1 AND v2`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Altitude BETWEEN 5000 AND 6000;
```

Filtering on text columns

Get rows where text is equal to a value with `WHERE col = 'v'`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Location = 'Roanoke';
```

Get rows where text is one of several values with `WHERE col IN ('v1', 'v2', ...)`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Location IN ('Roanoke', 'Denali', 'Elbros');
```

Get rows where text contains specific values with `WHERE col LIKE 'pattern'`

```
SELECT Location, Altitude, lon  
FROM Mountains  
WHERE Location LIKE 'Roan%';
```

Filtering on multiple columns

Get the rows where one condition and another condition hold with `WHERE col1 AND col2`

```
SELECT Location, Altitude, lon, Lat, longitude FROM  
Mountains  
WHERE Altitude > 5000 AND Lat > 30;
```

Get the rows where one condition or another condition holds with `WHERE col1 OR col2`

```
SELECT Location, Altitude, lon, Lat, longitude FROM  
Mountains  
WHERE Altitude > 5000 OR Lat > 30;
```

Filtering on missing data

Get rows where there are missing with `WHERE col IS NULL`

```
SELECT Location, name  
FROM Mountains  
WHERE name IS NULL;
```

Get rows where there are not missing with `WHERE col IS NOT NULL`

```
SELECT Location, name  
FROM Mountains  
WHERE name IS NOT NULL;
```

Aggregating Data

Simple aggregations

Get the total number of rows with `COUNT()`

```
SELECT COUNT(*)  
FROM Mountains;
```

Get the total value of a column with `COUNT (col)`

```
SELECT COUNT(Altitude) FROM  
Mountains;
```

Get the mean value of a column with `COUNT (col)/2`

```
SELECT COUNT(Altitude) FROM  
Mountains;
```

Get the maximum value of a column with `COUNT (MAX)`

```
SELECT MAX(Altitude) FROM  
Mountains;
```

Get the maximum value of a column with `COUNT (MAX)`

```
SELECT MAX(Altitude) FROM  
Mountains;
```

Grouping, filtering, and sorting

Get maximum grouping values with `GROUP BY col`

```
SELECT name, MAX(Lat)  
FROM Mountains  
GROUP BY name;
```

Get maximum grouping values in order of columns with `GROUP BY col1 ORDER BY col2 ASC`

```
SELECT MAX(Lat), MAX(Lon), MAX(Altitude) FROM Mountains  
FROM Mountains  
ORDER BY MAX(Lat)  
GROUP BY MAX(Lat), MAX(Altitude);
```

Get rows where text is a group that is filtered with `WHERE col IN (col1, col2, ...)`

```
SELECT MAX(Lat), MAX(Lon), MAX(Altitude) FROM Mountains  
FROM Mountains  
ORDER BY MAX(Lat)  
WHERE MAX(Lat) IN (col1, col2, ...);
```

Filter values on the grouping with `WHERE col1 > col2` or `WHERE col1 < col2`

```
SELECT MAX(Lat), MAX(Lon), MAX(Altitude) FROM Mountains  
FROM Mountains  
WHERE name = 'The world's highest peaks'  
ORDER BY MAX(Lat)  
WHERE MAX(Lat) > 30  
WHERE MAX(Lat) < 30;
```

MySQL-Specific Syntax

Not all code works in every version of SQL. The following examples work in MySQL, but not all guarantees to work in other databases.

Get the number of rows returned after filtering with `COUNT()`

```
SELECT *  
FROM Mountains  
LIMIT 5, 5
```

By default, MySQL uses row numbers starting at 0 with 1 as row 1.

```
SELECT *  
FROM Mountains  
LIMIT 1000, 1000;
```

Get row numbers starting from 0 with `OFFSET()`

```
SELECT *  
FROM Mountains  
LIMIT 1000, 1000;
```

Get the second row with `OFFSET()` and the second group with `WHERE col = 2`

```
SELECT MAX(Lat), MAX(Lon), MAX(Altitude)
```

FROM Mountains
WHERE name = 'Roanoke';

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Lingsheng Yao



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