

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_deg	lati_latitude_deg	altitude_meters	name	8_points
Elbros	44.7	43.1	5642	Mount Elbrus	0
Mont Blanc	6.8	45.7	4808	Mont Blanc	0
Denali	-151.2	63.3	6190	Denali	0
Mount Everest	86.9	27.9	8848	Mount Everest	0
K2	75.5	28.2	8611	K2	0
Lhotse	86.9	28.1	8585	Lhotse	0
Cho Oyu	86.9	28.2	8201	Cho Oyu	0

Querying tables

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

```
SELECT *
FROM Mountains;
```

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

```
SELECT location
FROM Mountains;
```

Get multiple columns from a table by name using `SELECT`:

```
SELECT location, altitude_meters
FROM Mountains;
```

Get the column names from a table using `SELECT`:

```
SELECT location, altitude_meters, name
FROM Mountains;
```

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

```
SELECT location, altitude_meters
FROM Mountains
ORDER BY altitude_meters;
```

Arrange the rows in descending order of values in a column using `ORDER BY`:

```
SELECT location, altitude_meters
FROM Mountains
ORDER BY altitude_meters DESC;
```

Get the number of rows returned using `COUNT`:

```
SELECT *
FROM Mountains;
-- 8
```

Get unique values using `SELECT DISTINCT`:

```
SELECT location
FROM Mountains;
```

Filtering Data

Filtering on numeric columns

Get rows where a column's greater than a value using `>`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters > 4000;
```

Get rows where a column's greater than or equal to a value using `>=`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters >= 4000;
```

Get rows where a column's less than a value using `<`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters < 4000;
```

Get rows where a column's equal to a value using `=`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters = 4000;
```

Get rows where a column's not equal to a value using `<>` or `!=`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters <> 4000;
```

Get rows where a column's between two values (inclusive) using `BETWEEN`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE altitude_meters BETWEEN 4000 AND 5000;
```

Filtering on text columns

Get rows where text is equal to a value using `=`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE location = 'K2';
```

Get rows where text is one of several values using `IN`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE location IN ('K2', 'Lhotse', 'Cho Oyu');
```

Get rows where text contains specific values using `LIKE`:

```
SELECT location, altitude_meters
FROM Mountains
WHERE location LIKE 'K%';
```

Filtering on multiple columns

Get the rows where one condition and another condition hold using `AND`:

```
SELECT location, altitude_meters, name
FROM Mountains
WHERE altitude_meters > 4000 AND location = 'K2';
```

Get the rows where one condition or another condition holds using `OR`:

```
SELECT location, altitude_meters, name
FROM Mountains
WHERE altitude_meters > 4000 OR location = 'K2';
```

Filtering on missing data

Get rows where there are missing values using `IS NULL`:

```
SELECT location, 8_points
FROM Mountains
WHERE 8_points IS NULL;
```

Get rows where there are not missing values using `IS NOT NULL`:

```
SELECT location, 8_points
FROM Mountains
WHERE 8_points IS NOT NULL;
```

Aggregating Data

Simple aggregations

Get the total number of rows using `COUNT`:

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

Get the total value of a column using `SUM`:

```
SELECT SUM(altitude_meters)
FROM Mountains;
```

Get the mean value of a column using `AVG`:

```
SELECT AVG(altitude_meters)
FROM Mountains;
```

Get the minimum value of a column using `MIN`:

```
SELECT MIN(altitude_meters)
FROM Mountains;
```

Get the maximum value of a column using `MAX`:

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

Grouping, filtering, and sorting

Get summary grouping values using `GROUP BY`:

```
SELECT location, COUNT(*)
FROM Mountains
GROUP BY location;
```

Get summary grouping values in order of columns using `ORDER BY` and `GROUP BY`:

```
SELECT location, COUNT(*)
FROM Mountains
GROUP BY location
ORDER BY location;
```

Get rows where text is a group that is filtered using `WHERE` and `GROUP BY`:

```
SELECT location, COUNT(*)
FROM Mountains
WHERE location = 'K2'
GROUP BY location;
```

Get values for the grouping using `GROUP BY` and `ORDER BY`:

```
SELECT location, COUNT(*)
FROM Mountains
GROUP BY location
ORDER BY location;
```

MySQL-Specific Syntax

Not all code works in every version of MySQL. The following examples work in MySQL 8.0 and later, but not in older versions.

Get the number of rows returned after filtering using `COUNT(*)`:

```
SELECT *
FROM Mountains
WHERE 8 > 0;
```

By default, MySQL uses row numbers starting at 1 using `ROWNUM`:

```
SELECT *
FROM Mountains
LIMIT 10;
```

Get row numbers starting from 1 using `ROWNUM`:

```
SELECT *
FROM Mountains
LIMIT 10;
```

Get the second row using `ROWNUM` and the column names using `SELECT`:

```
SELECT location, name
FROM Mountains;
```

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