

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 airport hubs, measured by passenger traffic. Each row contains the location and the total in airport transactions.

Location	Passenger_ytd	Intl_Passenger_ytd	Domestic_Passenger_ytd	Season	Airline
Los Angeles	400	100	300	Summer	American Airlines
Chicago-Midway	350	90	260	Summer	United Airlines
Denver	300	80	220	Summer	Frontier
San Francisco	250	70	180	Summer	Allegiant Airline
Atlanta	200	60	140	Summer	Delta
New York	150	50	100	Summer	JetBlue Airways

Querying tables

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

```
SELECT *
FROM transactions;
```

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

```
SELECT Passenger
FROM transactions;
```

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

```
SELECT Passenger, Domestic_Passenger
FROM transactions;
```

Get the column names from a table using `SELECT col1, col2, col3`

```
SELECT Passenger, Domestic_Passenger, Intl_Passenger
FROM transactions;
```

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

```
SELECT Passenger, Domestic_Passenger
FROM transactions
ORDER BY Domestic_Passenger;
```

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

```
SELECT Passenger, Intl_Passenger
FROM transactions
ORDER BY Intl_Passenger DESC;
```

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

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

Get unique values with `SELECT DISTINCT`

```
SELECT DISTINCT season
FROM transactions;
```

Filtering Data

Filtering on numeric columns

Get rows where a column is greater than a value with `WHERE col > val`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger > 100;
```

Get rows where a column is greater than or equal to a value with `WHERE col >= val`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger >= 100;
```

Get rows where a column is less than a value with `WHERE col < val`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger < 100;
```

Get rows where a column is equal to a value with `WHERE col = val`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger = 100;
```

Get rows where a column is not equal to a value with `WHERE col != val` or `WHERE col <> val`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger != 100;
```

Get rows where a column is between two values (inclusive) with `WHERE col BETWEEN val1 and val2`

```
SELECT Passenger, Domestic_Passenger
FROM transactions
WHERE Domestic_Passenger BETWEEN 100 AND 200;
```

Filtering on text columns

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

```
SELECT Passenger, Airport_Location
FROM transactions
WHERE Airport_Location = "New York";
```

Get rows where text is one of several values with `WHERE col IN ('val1', 'val2')`

```
SELECT Passenger, Airport_Location
FROM transactions
WHERE Airport_Location IN ("New York", "Los Angeles");
```

Get rows where text contains specific values with `WHERE col LIKE 'pattern'`
% - wildcard for characters

```
SELECT Passenger, Airport_Location
FROM transactions
WHERE Airport_Location LIKE "New%";
```

Filtering on multiple columns

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

```
SELECT Passenger, Domestic_Passenger, Intl_Passenger
FROM transactions
WHERE Domestic_Passenger > 100 AND Intl_Passenger > 50;
```

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

```
SELECT Passenger, Domestic_Passenger, Intl_Passenger
FROM transactions
WHERE Domestic_Passenger > 100 OR Intl_Passenger > 50;
```

Filtering on missing data

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

```
SELECT Passenger, A_Airline
FROM transactions
WHERE A_Airline IS NULL;
```

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

```
SELECT Passenger, A_Airline
FROM transactions
WHERE A_Airline IS NOT NULL;
```

Aggregating Data

Simple aggregations

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

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

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

```
SELECT SUM(Domestic_Passenger)
FROM transactions;
```

Get the mean value of a column with `SELECT AVG(col)`

```
SELECT AVG(Domestic_Passenger)
FROM transactions;
```

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

```
SELECT MAX(Domestic_Passenger)
FROM transactions;
```

Get the minimum value of a column with `SELECT MIN(col)`

```
SELECT MIN(Domestic_Passenger)
FROM transactions;
```

Grouping, filtering, and sorting

Get summary grouping values with `SELECT BY col`

```
SELECT season, COUNT(*)
FROM transactions
GROUP BY season;
```

Get summary grouping values in order of columns with `ORDER BY col1 ORDER BY col2 DESC`

```
SELECT Airport_Location, COUNT(Airport_Location) AS total_passenger
FROM transactions
ORDER BY Airport_Location
ORDER BY total_passenger DESC;
```

Get rows where text is a group that is filtered with `WHERE BY col1 HAVING col2`

```
SELECT Airport_Location, COUNT(Airport_Location) AS total_passenger
FROM transactions
WHERE Airport_Location
WHERE BY total_passenger > 50;
```

Filter values on the grouping with `WHERE col1, col2 HAVING col3 OR col4`

```
SELECT Airport_Location, COUNT(Airport_Location) AS total_passenger
FROM transactions
WHERE season = "The best Summer Season"
ORDER BY Airport_Location
ORDER BY total_passenger DESC
WHERE total_passenger > 50;
```

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 database.

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

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

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

```
SELECT *
FROM transactions
ORDER BY row = "The best Summer Season";
```

Get row number starting from 0 with 0 as row 1

```
SELECT *
FROM transactions
ORDER BY row_start = "The best Summer Season";
```

Get the sorted only with `ORDER BY()` and the sorted descending with `ORDER BY DESC()`

```
SELECT MAX(PASS), MIN(PASS);
```

Get unique values with `SELECT DISTINCT`

```
SELECT DISTINCT
```

A Guide To Mysql Answers

L Cohen



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Adopting the Beat of Appearance: An Emotional Symphony within **A Guide To Mysql Answers**

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