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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 publishing.

Sample Data

The dataset contains details of the world's highest-valued media franchises by gross revenue. Each row contains one franchise, and the table is named franchises.

Franchise	Originating year	Total revenue (bn)	Original medium	Owner	# books

Querying tables

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

```
SELECT *
FROM franchises
```

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

```
SELECT franchise
FROM franchises
```

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

```
SELECT franchise, inception_year
FROM franchises
```

Rename columns using `SELECT col AS new_name`

```
SELECT inception_year AS inception_year
FROM franchises
```

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

```
SELECT franchise, inception_year
FROM franchises
ORDER BY inception_year
```

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

```
SELECT franchise, total_revenue_level
FROM franchises
ORDER BY total_revenue_level DESC
```

Limit the number of rows returned with `LIMIT n`

```
SELECT *
FROM franchises
LIMIT 5
```

Get unique values with `SELECT DISTINCT`

```
SELECT DISTINCT owner
FROM franchises
```

Filtering Data

Filtering on numeric columns

Get rows where a number is greater than a value with `WHERE col > n`

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year > 1990
```

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

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year >= 1990
```

Get rows where a number is less than a value with `WHERE col < n`

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year < 1990
```

Get rows where a number is equal to a value with `WHERE col = n`

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year = 1990
```

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

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year != 1990
```

Get rows where a number is between two values (inclusive) with `WHERE col BETWEEN a AND b`

```
SELECT franchise, inception_year
FROM franchises
WHERE inception_year BETWEEN 1980 AND 1990
```

Filtering on text columns

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

```
SELECT franchise, original_medium
FROM franchises
WHERE original_medium = 'book'
```

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

```
SELECT franchise, original_medium
FROM franchises
WHERE original_medium IN ('novel', 'video game')
```

Get rows where text contains specific letters with `WHERE col LIKE "%abc%"` to find words like character(s)

```
SELECT franchise, original_medium
FROM franchises
WHERE original_medium LIKE "book"
```

Filtering on multiple columns

Get the rows where one condition and another condition hold with `WHERE cond1 AND cond2`

```
SELECT franchise, inception_year, total_revenue_level
FROM franchises
WHERE inception_year > 1980 AND total_revenue_level > 10
```

Get the rows where one condition or another condition holds with `WHERE cond1 OR cond2`

```
SELECT franchise, inception_year, total_revenue_level
FROM franchises
WHERE inception_year > 1980 OR total_revenue_level > 10
```

Filtering on missing data

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

```
SELECT franchise, n_books
FROM franchises
WHERE n_books IS NULL
```

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

```
SELECT franchise, n_books
FROM franchises
WHERE n_books IS NOT NULL
```

Aggregating Data

Simple aggregations

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

```
SELECT COUNT(*)
FROM franchises
```

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

```
SELECT SUM(total_revenue_level)
FROM franchises
```

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

```
SELECT AVG(total_revenue_level)
FROM franchises
```

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

```
SELECT MIN(total_revenue_level)
FROM franchises
```

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

```
SELECT MAX(total_revenue_level)
FROM franchises
```

Grouping, filtering, and sorting

Get summaries grouped by values with `GROUP BY col`

```
SELECT owner, COUNT(*)
FROM franchises
GROUP BY owner
```

Get summaries grouping values in order of summaries with `GROUP BY col ORDER BY agg1 DESC`

```
SELECT original_medium, SUM(total_revenue) AS total_revenue
FROM franchises
GROUP BY original_medium
ORDER BY total_revenue DESC
```

Get rows where counts in a group meet a criteria with `GROUP BY col HAVING count`

```
SELECT original_medium, SUM(total_revenue) AS total_revenue
FROM franchises
GROUP BY original_medium
ORDER BY total_revenue DESC
HAVING total_revenue > 10
```

Filter before and after grouping with `WHERE cond1 (before GROUP BY col) HAVING count (after)`

```
SELECT original_medium, SUM(total_revenue) AS total_revenue
FROM franchises
WHERE owner = 'The Walt Disney Company'
GROUP BY original_medium
ORDER BY total_revenue DESC
HAVING total_revenue > 10
```

MySQL-Specific Syntax

Not all code works in every dialect of SQL. The following examples work in MySQL, but are not guaranteed to work in other dialects.

Limit the number of rows returned, offset from the top with `LIMIT n, n`

```
SELECT *
FROM franchises
LIMIT 3, 5
```

By default, MySQL uses case-insensitive matching in WHERE clauses

```
SELECT *
FROM franchises
WHERE owner = 'The Walt Disney Company'
```

To get case-sensitive matching, use WHERE BINARY col

```
SELECT *
FROM franchises
WHERE BINARY owner = 'The Walt Disney Company'
```

Get the current date with CURDATE() and the current datetime with NOW() or CURTIME()

```
SELECT CURDATE(), NOW(), CURTIME()
```

Get updated dates with DATE_FORMAT()

```
DATE_FORMAT()
```

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