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	n_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 franchises
FROM franchises
```

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

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

Rename columns using SELECT col AS my_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 franchises, 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 franchises, total_revenue_level
FROM franchises
ORDER BY total_revenue_level DESC
```

Limit the number of rows returned with LIMIT n

```
SELECT *
FROM franchises
LIMIT n
```

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 > x

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year > 1950
```

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

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year >= 1950
```

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

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year < 1950
```

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

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year = x
```

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

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year != 1977
```

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

```
SELECT franchises, inception_year
FROM franchises
WHERE inception_year BETWEEN 1950 AND 1977
```

Filtering on text columns

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

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

Get rows where text is one of several values with WHERE col IN ('x', 'y')

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

Get rows where text contains specific letters with WHERE col LIKE 'book'

```
SELECT franchises, 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 franchises, inception_year, total_revenue_level
FROM franchises
WHERE inception_year > 1950 AND total_revenue_level > 10
```

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

```
SELECT franchises, inception_year, total_revenue_level
FROM franchises
WHERE inception_year > 1950 OR total_revenue_level > 10
```

Filtering on missing data

Get rows where values are missing with WHERE col IS NULL

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

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

```
SELECT franchises, 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 grouped by values in order of summaries with GROUP BY col, ORDER BY col(s) DESC

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

Get rows where values 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
HAVING SUM(total_revenue) > 10
ORDER BY total_revenue DESC
```

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 original_medium > 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, x

```
SELECT *
FROM franchises
LIMIT 5, 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 your fields

```
SELECT fields
```

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Michael Kofler

Mysql Reference Guide:

MySQL Reference Manual Michael Widenius,David Axmark,MySQL AB,2002 This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system   **MySQL Reference Manual** David Axmark,1995   *MySQL Reference Manual* Kaj Arno,2005   MySQL Administrator's Guide and Language Reference MySQL AB,2006-04-27 Written by the creators of MySQL and edited by one of the most highly respected MySQL authors the MySQL Administrator s Guide and Language Reference is the official guide to installing MySQL to setting up and administering MySQL databases and to storing and retrieving data in these databases This new edition combines into one book the MySQL Language Reference on CD with the practical information of the MySQL Administrator s Guide book   **MySQL to DB2 Conversion Guide** Whei-Jen Chen,Angela Carlson,IBM Redbooks,2009-12-01 Switching database vendors is often considered an exhausting challenge for database administrators and developers Complexity total cost and the risk of downtime are often the reasons that restrain IT decision makers from starting the migration project The primary goal of this book is to show that with the proper planning and guidance converting from MySQL to IBM DB2 is not only feasible but straightforward If you picked up this book you are most likely considering converting to DB2 and are probably aware of several of the advantages of to converting to DB2 data server In this IBM Redbooks publication we discuss in detail how you can take advantage of this industry leading database server This book is an informative guide that describes how to convert the database system from MySQLTM 5 1 to DB2 V9 7 on Linux and the steps that are involved in enabling the applications to use DB2 instead of MySQL This guide also presents the best practices in conversion strategy and planning conversion tools porting steps and practical conversion examples It is intended for technical staff that is involved in a MySQL to DB2 conversion project   *MySQL Reference Manual* ,2002   MySQL Language Reference MySQL AB.,2005 With more than 4 million active installations MySQL is the world s most popular open source database Known for its speed high reliability and ease of use MySQL is rapidly becoming a low cost alternative to high priced high maintenance database systems from Oracle IMB and Microsoft and it already has more users than any of these more established proprietary databases The MySQL Language Reference is the only official guide to the MySQL language and programming APIs Written by the creators of MySQL and edited by the highly respected MySQL authors the MySQL Language Reference is designed for database administrators and programmers who need a reliable detailed reference to every part of the MySQL language and all the available APIs   **Julia 1.0 Programming Complete Reference Guide** Ivo Balbaert,Adrian Salceanu,2019-05-20 Learn dynamic programming with Julia to build apps for data analysis visualization machine learning and the web Key FeaturesLeverage Julia s high speed and efficiency to build fast efficient applicationsPerform supervised and unsupervised machine learning and time series analysisTackle problems concurrently and in a distributed environmentBook Description Julia offers the high productivity and ease of use of Python and R with the

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also explains how to deploy Java EE applications to GlassFish a free open source Java EE 5 compliant application server

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