

MySQL Cheat Sheet

MySQL cheat sheet provides you with the most commonly used MySQL commands and statements that help you work with MySQL more effectively.

MySQL Commands

Access MySQL server from the mysql client using a username and password (MySQL will prompt for a password):

```
1 mysql -u [username] -p;
```

Access a specific database using a username and password:

```
1 mysql -u [username] -p [database];
```

Exit

```
1 exit;
```

Export data using mysqldump tool

```
1 mysqldump -u [username] -p [database] > data_backup.sql;
```

To clear MySQL screen console window on Linux, you use the following command:

```
1 mysql> system clear;
```

Currently, there is no command available on Windows OS for clearing MySQL screen console window.

Working with Database



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```
1 USE database_name;
```

Drop a database with specified name permanently. All physical file associated with the database is no longer exists.

```
1 DROP DATABASE [IF EXISTS] database_name;
```

Show all available databases in the MySQL database server

```
1 show databases;
```

Working with Table

Lists all tables in a current database.

```
1 show tables;
```

Create a new table or a temporary table

```
1 CREATE [TEMPORARY] TABLE [IF NOT EXISTS] table(  
2     key type(size) NOT NULL PRIMARY KEY AUTO_INCREMENT,  
3     c1 type(size) NOT NULL,  
4     c2 type(size) NULL,  
5     ...  
6 );
```

Altering table structure

There are many actions that you can use with the [ALTER TABLE](#) statement as follows:

Add a new column into a table

```
1 ALTER TABLE table ADD [COLUMN];
```



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```
1 ALTER TABLE table ADD INDEX [name](column, ...);
```

Add [primary key](#) into a table.

```
1 ALTER TABLE table ADD PRIMARY KEY (column,...)
```

Remove primary key from a table.

```
1 ALTER TABLE table DROP PRIMARY KEY
```

[Deleting table](#) structure and data permanently.

```
1 DROP TABLE [IF EXISTS] table [, name2, ...]  
2 [RESTRICT | CASCADE]
```

Get information about th table or a column.

```
1 DESCRIBE table [column]
```

Working with Index

[Creating an index](#) with the specified name on a table

```
1 CREATE [UNIQUE|FULLTEXT] INDEX index_name  
2 ON table (column,...)
```

Removing a specified index from table

```
1 DROP INDEX index_name
```

Querying Data



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```
1 SELECT column, column2...  
2 FROM table;
```

Query unique records

```
1 SELECT DISTINCT (column)  
2 FROM table;
```

Query data with a filter using a [WHERE clause](#).

```
1 SELECT *  
2 FROM table  
3 WHERE condition;
```

Change the output of the column name using [column alias](#).

```
1 SELECT column_1 AS new_column_1, ...  
2 FROM table
```

Query data from multiple tables using [inner join](#) or [left join](#)

```
1 SELECT *  
2 FROM table_1  
3 INNER JOIN table_2 ON conditions
```

```
1 SELECT *  
2 FROM table1  
3 LEFT JOIN table2 ON conditions
```

Counting rows in a table.

```
1 SELECT COUNT (*)  
2 FROM table
```



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Group rows using [GROUP BY](#) clause.

```
1 SELECT *
2 FROM table
3 GROUP BY column_1, column_2, ...;
```

Filter group of rows using both [GROUP BY](#) and [HAVING](#) clauses.

```
1 SELECT *
2 FROM table
3 GROUP BY column_1
4 HAVING condition;
```

Modifying Data

Insert a new row into a table

```
1 INSERT INTO table(column1,column2,...)
2 VALUES(value_1,value_2,...);
```

Insert multiple rows into a table

```
1 INSERT INTO table(column1,column2,...)
2 VALUES(value_1,value_2,...),
3         (value_1,value_2,...),
4         (value_1,value_2,...)...
```

Update data for all rows

```
1 UPDATE table
2 SET column_1 = value_1,
3     ...
```

Update data for a set of rows specified by a condition in [WHERE](#) clause.



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```
1 UPDATE table_1, table_2
2 INNER JOIN table_1 ON table_1.column_1 = table_2.column_1
3 SET column_1 = value_1,
4 WHERE condition
```

Delete all rows in a table

```
1 DELETE FROM table;
```

Delete rows specified by a condition

```
1 DELETE FROM table
2 WHERE condition;
```

Delete with join

```
1 DELETE table_1, table2
2 FROM table_1
3 INNER JOIN table_2 ON table_1.column_1 = table_2.column_2
4 WHERE condition;
```

Search

Search for data using [LIKE operator](#):

```
1 SELECT * FROM table
2 WHERE column LIKE '%value%'
```

Text search using a [regular expression](#) with [RLIKE operator](#).

```
1 SELECT * FROM table
2 WHERE column RLIKE 'regular_expression'
```

