

# MariaDB Common Queries

## Query Databases

```
MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema|
| mysql             |
| nextcloud         |
| performance_schema|
| sitedatabase      |
+-----+
```

## Select a database

```
MariaDB [(none)]> use sitedatabase;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [sitedatabase]>
```

## Working with databases

Show all available databases in the current MySQL database server

```
SHOW DATABASE;
```

Create a database with a specified name if it does not exist in the database server

```
CREATE DATABASE [IF NOT EXISTS] database_name;
```

Use a database or change the current database to another database that you are working with:

```
USE database_name;
```

Drop a database with a specified name permanently. All physical files associated with the database will be deleted.

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

## Working with tables

Show all tables in a current database.

```
SHOW TABLES;
```

Create a new table

```
CREATE TABLE [IF NOT EXISTS] table_name( column_list );
```

Add a new column into a table:

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

Drop a column from a table:

```
ALTER TABLE table_name  
DROP [COLUMN] column_name;
```

Add index with a specific name to a table on a column:

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

Add primary key into a table:

```
ALTER TABLE table_name  
ADD PRIMARY KEY (column_name,...);
```

Remove the primary key of a table:

```
ALTER TABLE table_name  
DROP PRIMARY KEY;
```

Drop a table:

```
DROP TABLE [IF EXISTS] table_name;
```

Show the columns of a table:

```
DESCRIBE table_name;
```

Show the information of a column in a table:

```
DESCRIBE table_name column_name;
```

## Query Users

```

MariaDB [(none)]> select host, user, password from mysql.user;
+-----+-----+-----+
| host      | user      | password                                     |
+-----+-----+-----+
| localhost | root      | *AF926838A9A0501BA7017D135C123C007497F85B |
| localhost | www-data  | *AF926838A9A0501BA7017D135C123C007497F85B |
| localhost | nc-user   | *AF926838A9A0501BA7017D135C123C007497F85B |
+-----+-----+-----+

MariaDB [(none)]> SELECT User, Db, Host from mysql.db;
+-----+-----+-----+
| User      | Db          | Host      |
+-----+-----+-----+
| nc-user   | nextcloud   | localhost |
| www-data  | sitedatabase | localhost |
+-----+-----+-----+

```

## Create Users

```

CREATE USER 'www-data'@'localhost' IDENTIFIED BY 'your_password';
CREATE USER 'nc-user'@'localhost' IDENTIFIED BY 'your_password';

```

## Query Users Rights

```

MariaDB [(none)]> show grants for 'root'@'localhost';
+-----+
-----+
| Grants for root@localhost
|
+-----+
-----+
| GRANT ALL PRIVILEGES ON *.* TO 'root'@'localhost' IDENTIFIED VIA
unix_socket WITH GRANT OPTION |
| GRANT PROXY ON ''@%' TO 'root'@'localhost' WITH GRANT OPTION
|
+-----+
-----+

MariaDB [(none)]> show grants for 'www-data'@'localhost';
+-----+
-----+
| Grants for www-data@localhost
|
+-----+

```

```
-----+
| GRANT USAGE ON *.* TO 'www-data'@'localhost' IDENTIFIED BY PASSWORD
| '*AF926838A9A0501BA7017D135C123C007497F85B' |
| GRANT ALL PRIVILEGES ON `sitedatabase`.* TO 'www-data'@'localhost'
|
+-----+
-----+
```

```
MariaDB [(none)]> show grants for 'nc-user'@'localhost';
```

```
+-----+
-----+
| Grants for nc-user@localhost
|
+-----+
-----+
| GRANT USAGE ON *.* TO 'nc-user'@'localhost' IDENTIFIED BY PASSWORD
| '*AF926838A9A0501BA7017D135C123C007497F85B' |
| GRANT ALL PRIVILEGES ON `nextcloud`.* TO 'nc-user'@'localhost'
|
+-----+
-----+
```

## Grand Users Rights

```
GRANT ALL PRIVILEGES ON `sitedatabase`.* TO 'www-data'@'localhost'
GRANT ALL PRIVILEGES ON `nextcloud`.* TO 'nc-user'@'localhost'
```

## Migrate Databases

Dump the databases on the original server. Better extract them one-by-one so we don't migrate anything unnecessary. To dump as single databases, use the following commands:

```
# mysqldump -u root -p --all-databases > all_databases.sql <---
[All Databases]
# mysqldump -u [user] -p --opt [database name] > database_name.sql <---
[Single Database]
# mysqldump -u root -p --opt sitedatabase > sitedatabase_dump.sql
# mysqldump -u root -p --opt nextcloud > nextcloud_dump.sql
```

Once the dump is completed, you are ready to transfer the databases. But databases need to be created first on target server.

```
# mysql -u root -p
CREATE DATABASE sitedatabase;
CREATE DATABASE nextcloud;
```

```
quit;
```

Restore the data to the newly created databases:

```
# mysql -u [user] -p --all-databases < all_databases.sql      <---  
[All Databases]  
# mysql -u [user] -p newdatabase < DUMP-SITE-DATABASE.sql    <---  
[Single Database]  
# mysql -u root -p sitedatabase < sitedatabase_dump.sql  
# mysql -u root -p nextcloud < nextcloud_dump.sql
```

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