

## DB CREATION

on terminal goto root by using the command **sudo su**  
then type **mysql -u root -p** then enter password

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
-> EXIT
-> Ctrl-C -- exit!
Aborted
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 38
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.00 sec)

MariaDB [(none)]> 
```

Then type **SHOW DATABASES** (to show the current databases) after that to create a database by typing the command **CREATE DATABASE onrevenue;** (in this onrevenue is the DB name)

```
MariaDB [(none)]> CREATE DATABASE onrevenue ;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| onrevenue |
| performance_schema |
+-----+
4 rows in set (0.01 sec)

MariaDB [(none)]> 
```

To enter the database type **USE onrevenue;** (onrevenue DB Name)

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near ''on
revenue'' at line 1
MariaDB [(none)]> CREATE DATABASE 'test' ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near ''te
st'' at line 1
MariaDB [(none)]> CREATE DATABASE onrevenue ;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| onrevenue |
| performance_schema |
+-----+
4 rows in set (0.01 sec)

MariaDB [(none)]> USE onrevenue;
Database changed
MariaDB [onrevenue]> 
```

To Create a Table inside onrevenue by typing the command **CREATE TABLE employes(id INT NOT NULL, name VARCHAR(40) NOT NULL);**

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help

MariaDB [(none)]> USE onrevenue
Database changed
MariaDB [onrevenue]> CREATE TABLE employes()
-> Ctrl-C -- exit!
Aborted
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 40
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> USE onrevenue;
Database changed
MariaDB [onrevenue]> CREATE TABLE employes(
-> id INT NOT NULL,
-> name VARCHAR(40) NOT NULL,
-> remarks VARCHAR(80) DEFAULT "ENGLISH");
Query OK, 0 rows affected (0.02 sec)
```

To Show the tables use the command **DESCRIBE employees;** (employees is the table name)

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
MariaDB [onrevenue]> show tables
-> ;
+-----+
| Tables_in_onrevenue |
+-----+
| employees            |
+-----+
1 row in set (0.00 sec)

MariaDB [onrevenue]> DESCRIBE employees ;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int(11)       | NO   |     | NULL    |       |
| name   | varchar(40)   | NO   |     | NULL    |       |
| remarks | varchar(80)   | YES  |     | ENGLISH |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

MariaDB [onrevenue]>
MariaDB [onrevenue]>
MariaDB [onrevenue]>
MariaDB [onrevenue]>
MariaDB [onrevenue]> █
```

To Insert the values to tables use command **INSERT INTO employees VALUES(\_\_\_\_);**  
eg : (INSERT INTO employees VALUES(51,'xyz1','no-remarks,good'); integer does not have quates.

To show the inserted values to DB by using the command **SELECT \* FROM employees;**

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
MariaDB [onrevenue]> DESCRIBE onrevenue ;INSERT INTO employes VALUES(50,'xyz','no-remarks');
ERROR 1146 (42S02): Table 'onrevenue.onrevenue' doesn't exist
Query OK, 1 row affected (0.01 sec)

MariaDB [onrevenue]> select * from employes
-> ;
+-----+-----+-----+
| id | name | remarks |
+-----+-----+-----+
| 50 | xyz  | no-remarks |
+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [onrevenue]>
MariaDB [onrevenue]> INSERT INTO employes VALUES(51,'xyz1','no-remarks,good');
Query OK, 1 row affected (0.00 sec)

MariaDB [onrevenue]> select * from employes;
+-----+-----+-----+
| id | name | remarks |
+-----+-----+-----+
| 50 | xyz  | no-remarks |
| 51 | xyz1 | no-remarks,good |
+-----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [onrevenue]> █
```



## DB Backup

on root terminal type **mysqldump -u root -p onrevenue > revenuebackup.sql** ( ON REVENUE IS THE DB NAME and revenue backup.sql is the backup name )

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
MariaDB [onrevenue]> show tables;
+-----+
| Tables_in_onrevenue |
+-----+
| employes             |
+-----+
1 row in set (0.01 sec)

MariaDB [onrevenue]> select * from tables;
ERROR 1146 (42S02): Table 'onrevenue.tables' doesn't exist
MariaDB [onrevenue]> select * from employes;
+----+-----+-----+
| id | name | remarks          |
+----+-----+-----+
| 50 | xyz  | no-remarks       |
| 51 | xyz1 | no-remarks,good  |
+----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [onrevenue]> exit
Bye
root@dipin-Vostro-3446:/home/dipin# mysqldump -u root -p onrevenue > revenueback
up.sql
Enter password:
root@dipin-Vostro-3446:/home/dipin# ls
Desktop  Documents  examples.desktop  Pictures  revenuebackup.sql  Videos
dipin    Downloads  Music             Public    Templates
root@dipin-Vostro-3446:/home/dipin#
```

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
Enter password:
root@dipin-Vostro-3446:/home/dipin# ls
Desktop  Documents  examples.desktop  Pictures  revenuebackup.sql  Videos
dipin    Downloads  Music             Public    Templates
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 45
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> exit
Bye
root@dipin-Vostro-3446:/home/dipin# tail -n 10 revenuebackup.sql

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2020-08-02 11:15:16
root@dipin-Vostro-3446:/home/dipin#
```

after that hav to delete the db using **DROP DATABASE onrevenue;**  
then to verify type **SHOW DATABASES;**

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2020-08-02 11:15:16
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 46
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> drop database onrevenue;
Query OK, 1 row affected (0.02 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.00 sec)

MariaDB [(none)]> 
```

then create a DB as follows

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> drop database onrevenue;
Query OK, 1 row affected (0.02 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.00 sec)

MariaDB [(none)]> CREATE DATABASE onrevenue;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use onrevenue;
Database changed
MariaDB [onrevenue]> show tables;
Empty set (0.00 sec)

MariaDB [onrevenue]> 
```

To restore type in terminal **mysql -u root -p -h localhost onrevenue < revenuebackup.sql** (

```
root@dipin-Vostro-3446: /home/dipin
File Edit View Search Terminal Help
Bye
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p -h localhost onrevenue < revenuebackup.sql
Enter password:
root@dipin-Vostro-3446:/home/dipin# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 48
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| onrevenue |
| performance_schema |
+-----+
4 rows in set (0.00 sec)

MariaDB [(none)]> use onrevenue;
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 [onrevenue]> show tables;
+-----+
| Tables_in_onrevenue |
+-----+
| employees |
+-----+
1 row in set (0.00 sec)

MariaDB [onrevenue]>
```

scuessfully restored.

For Reference

DB,Table Creation <https://www.youtube.com/watch?v=qAM6ElROwqQ>

DB Restore : <https://www.youtube.com/watch?v=rb9iZ6sLkxI>