# **Tutorial 4 (Part I)**

## **MySQL Installation**

1) Open a terminal in Ubuntu OS. Install required packages as mentioned below using **sudo** commands. Set password to **password** when prompted.

```
$sudo apt update
$sudo apt install mysql-server
$sudo apt install mysql-client
$sudo apt install libmariadb-java
```

2) Create database **Test** and **testtable** table.

```
$mysql -uroot -p
```

Considering that MySQL doesn't currently have a password. Any password will result in an error, therefore, **finish step 4** before continuing to set the password for MySQL. We are using "password" to login for MySQL.

```
hduser@muhammad-VM:~ Q = - □ ×

hduser@muhammad-VM:~$ mysql -uroot -p

Enter password:

ERROR 1698 (28000): Access denied for user 'root'@'localhost'

hduser@muhammad-VM:~$
```

After completion of step 4, at the MySQL command prompt, Create the table in MySQL by using the following commands as

```
mysql>create database Test;
mysql>use Test;
mysql>CREATE TABLE testtable (id INTEGER PRIMARY KEY,
description VARCHAR(255));
mysql>show tables;
```

3) Exit the mysql session.

#### 4) Reset Root Password

If you are facing any error during the login of mysql session

For MySQL 8 or above version and you can check the version by using (\$mysql --version) on Ubuntu, run following commands as shown in the provided in the text format and the screenshot.

```
$sudo mysql
mysql>UPDATE mysql.user SET authentication_string=null WHERE User='root';
mysqL>flush privileges;
mysql>ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
'password';
Flush privileges again.
mysql>flush privileges;
Exit MySQL.
mysql>exit
```

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### \$mysql -uroot -p

```
hduser@muhammad-VM: ~
hduser@muhammad-VM:~$ sudo mysql
Welcome to the MySQL monitor.
Your MySQL connection id is 9
                                          .
Commands end with ; or \g.
Server version: 8.0.33-Oubuntu0.22.04.4 (Ubuntu)
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> UPDATE mysql.user SET authentication_string=null WHERE User='root';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> flush privileges;
Query OK, 0 rows affected (0.01 sec)
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
-> 'password';
Query OK, 0 rows affected (0.01 sec)
mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)
mysql> exit
hduser@muhammad-VM:~$ mysql -uroot -p
Houser Municipality and the password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.33-Oubuntu0.22.04.4 (Ubuntu)
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
```

**Note:** When logging in to MySQL, use password as 'password'.

#### Reference:

https://devanswers.co/how-to-reset-mysql-root-password-ubuntu/