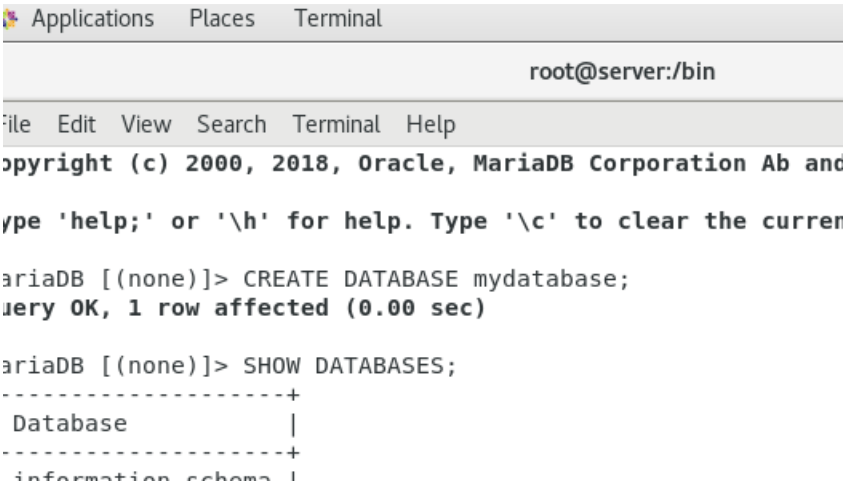
MARIADB

MariaDB is an open-source relational database management system (RDBMS) that is a fork of MySQL. It was created by the original developers of MySQL after concerns arose regarding Oracle Corporation's acquisition of MySQL AB, the original company behind MySQL.

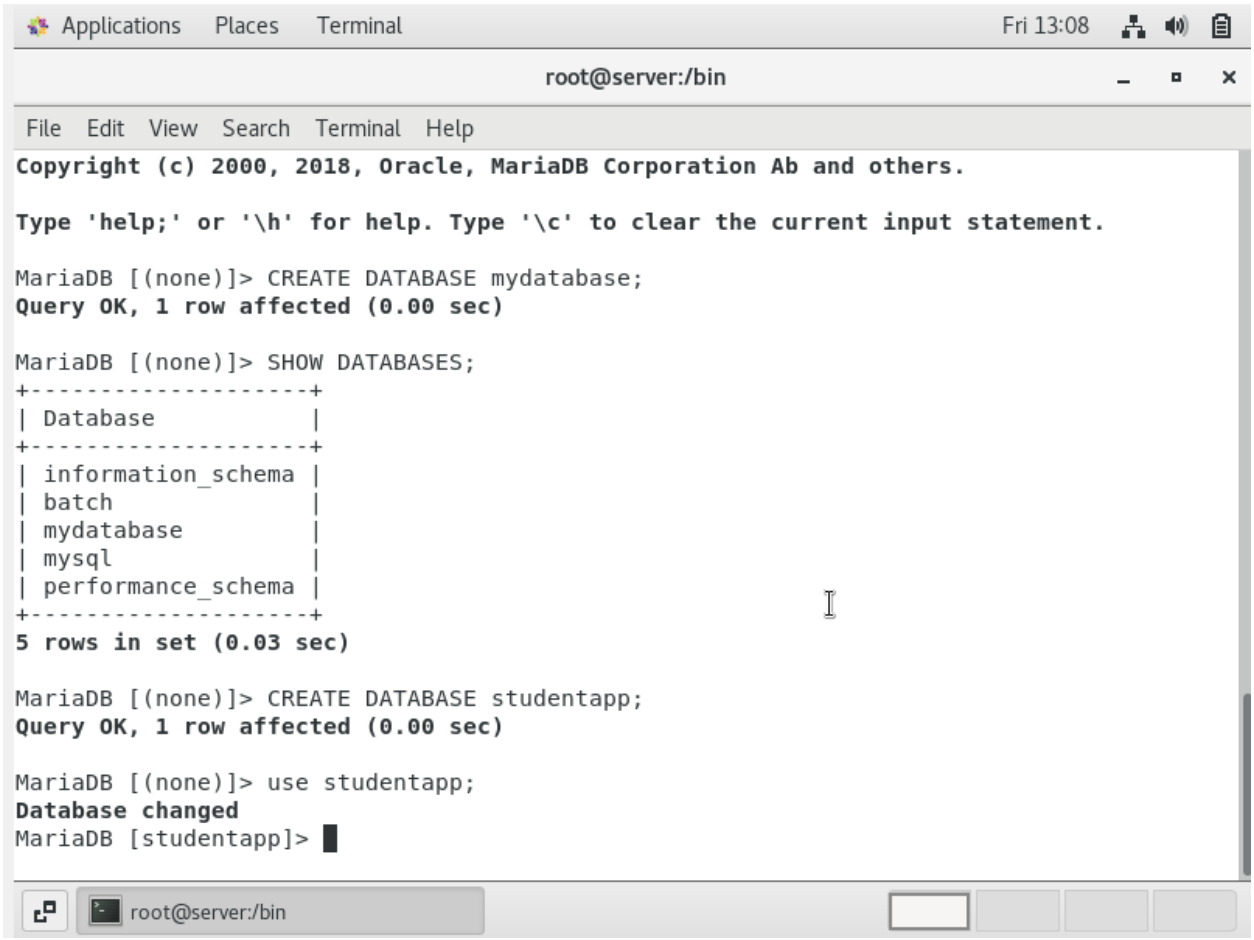
MariaDB is designed to maintain compatibility with MySQL, while also providing additional features, performance improvements, and enhanced security. It shares the same basic structure and SQL syntax with MySQL.

Database Backup & Store Database schema and data separately (Centos VM)

1. Install mariadb-server package.
    - Yum install mariadb-server -y
2. Start daemon(mariadb) service.
    - Systemctl start mariadb
    - Systemctl status mariadb
3. Install Mariadb
    - mysql_secure_installtion
4. Enter into Mariadb



5. Create Database



6. Create table

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 5.5.68-MariaDB MariaDB Server

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

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| b28                |
| batch              |
| mydatabase         |
| mysql              |
| performance_schema |
| studentapp         |
+--------------------+
7 rows in set (0.04 sec)
```

```
MariaDB [(none)]> use studentapp;
Database changed
MariaDB [studentapp]> create table nilofar (no int,name,varchar(20),result varchar(10));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syn
tax to use near 'varchar(20),result varchar(10))' at line 1
MariaDB [studentapp]> create table nilofar (name varchar(10),roll_no int,status varchar(10));
Query OK, 0 rows affected (0.07 sec)

MariaDB [studentapp]>
```

```
MariaDB [studentapp]> describe nilofar
    -> ;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| name    | varchar(10) | YES  |     | NULL    |       |
| roll_no | int(11)     | YES  |     | NULL    |       |
| status  | varchar(10) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.02 sec)
```

7. Insert data

```
3 rows in set (0.02 sec)

MariaDB [studentapp]> insert into nilofar values ('user1','100','fail');
Query OK, 1 row affected (0.02 sec)

MariaDB [studentapp]> insert into nilofar values ('user2','200','fail');
Query OK, 1 row affected (0.02 sec)

MariaDB [studentapp]> insert into nilofar values ('user3','300','fail');
Query OK, 1 row affected (0.02 sec)

MariaDB [studentapp]> select * from nilofar;
+-------+---------+--------+
| name  | roll_no | status |
+-------+---------+--------+
| user1 |     100 | fail   |
| user2 |     200 | fail   |
| user3 |     300 | fail   |
+-------+---------+--------+
3 rows in set (0.00 sec)
```

8. Take backup of schema and table in separate files

```
[root@server ~]# mysqldump -u root -h localhost -p123 studentapp --no-data > schema.bkp
[root@server ~]# mysqldump -u root -h localhost -p123 studentapp --no-create-info > table.bkp
[root@server ~]# ls
anaconda-ks.cfg  Desktop  Documents  Downloads  initial-setup-ks.cfg  Music  Pictures  Public  schema.bkp  table.bkp  Templates  Videos
[root@server ~]# yum install awscli -y
Loaded plugins: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: centos.mirror.net.in
 * extras: centos.mirror.net.in
 * updates: centos.mirror.net.in
base                                                                                                                | 3.6 kB  00:00:00
extras                                                                                                              | 2.9 kB  00:00:00
updates                                                                                                             | 2.9 kB  00:00:00
Resolving Dependencies
--> Running transaction check
---> Package awscli.noarch 0:1.23.2-1.el7 9.1 will be installed
```