```
[sudo] password for mine:
 Last metadata expiration check: 0:05:34 ago on Wed 24 Jan 2024
  10:19:47 PM +0545.
 Package mariadb-server-3:10.5.23-1.fc39.x86_64 is already inst
 alled.
 Dependencies resolved.
 Nothing to do.
 Complete!
o mine@mine:~$
mine@mine:~$ sudo systemctl start mariadb
mine@mine:~$ sudo systemctl enable mariadb
o mine@mine:~$ sudo systemctl status mariadb
 • mariadb.service - MariaDB 10.5 database server
      Loaded: loaded (/usr/lib/systemd/system/mariadb.service;>
     Drop-In: /usr/lib/systemd/system/service.d
              └─10-timeout-abort.conf
      Active: active (running) since Wed 2024-01-24 17:33:33 +>
        Docs: man:mariadbd(8)
              https://mariadb.com/kb/en/library/systemd/
    Main PID: 1342 (mariadbd)
      Status: "Taking your SQL requests now..."
       Tasks: 8 (limit: 18678)
      Memory: 99.4M
         CPU: 4.018s
      CGroup: /system.slice/mariadb.service
              Jan 24 17:33:33 mine systemd[1]: Starting mariadb.service - M>
 Jan 24 17:33:33 mine mariadb-prepare-db-dir[1306]: Database M>
 Jan 24 17:33:33 mine mariadb-prepare-db-dir[1306]: If this is>
 Jan 24 17:33:33 mine (mariadbd)[1342]: mariadb.service: Refer>
 Jan 24 17:33:33 mine systemd[1]: Started mariadb.service - Ma>
 lines 1-20/20 (END)
```

mine@mine:~\$ sudo dnf install mariadb-server

```
🍫 mine@mine:~$ mysql -u root -p
 Enter password:
 Welcome to the MariaDB monitor. Commands end with ; or \q.
 Your MariaDB connection id is 6
 Server version: 10.5.23-MariaDB MariaDB Server
 Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and o
 thers.
 Type 'help;' or '\h' for help. Type '\c' to clear the current
 input statement.
 MariaDB [(none)]>
 MariaDB [(none)]> SHOW DATABASES;
 +----+
 | Database
 +----+
 | information_schema |
 | mysql
 | performance_schema |
 wizdemy
 +----+
 4 rows in set (0.002 sec)
 MariaDB [(none)]> CREATE DATABASE satish;
 Query OK, 1 row affected (0.001 sec)
 MariaDB [(none)]> SHOW DATABASES;
 +----+
 | Database
 +----+
 | information_schema |
 | mysql
 | performance_schema |
 satish
 wizdemy
 +----+
 5 rows in set (0.001 sec)
 MariaDB [(none)]> USE satish;
 Database changed
 MariaDB [satish]>
```

```
MariaDB [satish] > CREATE TABLE user(
   -> id INT PRIMARY KEY AUTO_INCREMENT,
   -> username VARCHAR(255) UNIQUE NOT NULL,
   -> email VARCHAR(255) UNIQUE NOT NULL,
   -> password VARCHAR(255) NOT NULL,
   -> created_at DATETIME DEFAULT CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.020 sec)
MariaDB [satish]> SHOW TABLES;
+----+
| Tables_in_satish |
+----+
user
+----+
1 row in set (0.001 sec)
MariaDB [satish]> DESC user;
+-----
| Extra
+-----
| username | varchar(255) | NO | UNI | NULL
5 rows in set (0.002 sec)
MariaDB [satish] > ALTER TABLE user ADD COLUMN address VARCHAR(255);
Query OK, 0 rows affected (0.015 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> DESC user;
+-----
| Field | Type | Null | Key | Default | Extra
+-----
| username | varchar(255) | NO | UNI | NULL
email | varchar(255) | NO | UNI | NULL
| password | varchar(255) | NO | NULL |
| created_at | datetime | YES | current_timestamp() |
| address | varchar(255) | YES | NULL |
6 rows in set (0.002 sec)
```

```
MariaDB [satish] > ALTER TABLE user MODIFY COLUMN username VARCHAR(50);
Query OK, 0 rows affected (0.024 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> DESC user;
+-----
| Field | Type | Null | Key | Default
+-----
| auto increment |
| username | varchar(50) | YES | UNI | NULL
| created_at | datetime | YES | | current_timestamp() |
| address | varchar(255) | YES | NULL |
+-----
6 rows in set (0.001 sec)
MariaDB [satish] > ALTER TABLE user DROP COLUMN password;
Query OK, 0 rows affected (0.015 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> DESC user;
+-----
| Field | Type | Null | Key | Default
+-----
| auto_increment |
| username | varchar(50) | YES | UNI | NULL
email | varchar(255) | NO | UNI | NULL
| address | varchar(255) | YES | NULL
+-----
5 rows in set (0.002 sec)
MariaDB [satish]> ALTER TABLE user ADD CHECK (age >= 18);
Query OK, 0 rows affected (0.037 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> DESC user;
+----
| Field | Type | Null | Key | Default | Extra
+----+
| auto_increment |
username | varchar(50) | YES | UNI | NULL
| created_at | datetime | YES | | current_timestamp() |
                      NULL
| address | varchar(255) | YES |
6 rows in set (0.002 sec)
MariaDB [satish] > ALTER TABLE user RENAME TO users;
Query OK, 0 rows affected (0.017 sec)
MariaDB [satish] > SHOW TABLES;
+----+
| Tables_in_satish |
+----+
1 row in set (0.001 sec)
```

```
MariaDB [satish] > ALTER TABLE users DROP CONSTRAINT username;
Query OK, 0 rows affected (0.006 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> DESC user;
ERROR 1146 (42S02): Table 'satish.user' doesn't exist
MariaDB [satish]> DESC users;
+-----
| Field | Type | Null | Key | Default | Extra
+----+
| username | varchar(50) | YES | NULL
email | varchar(255) | NO | UNI | NULL
| created_at | datetime | YES | current_timestamp() |
6 rows in set (0.002 sec)
```

```
MariaDB [satish] > DROP TABLE users;
Query OK, 0 rows affected (0.049 sec)

MariaDB [satish] > SHOW TABLES;
Empty set (0.001 sec)

MariaDB [satish] > DROP DATABASE satish;
Query OK, 0 rows affected (0.037 sec)

MariaDB [(none)] >
```

Foreign key

```
MariaDB [satish] > CREATE TABLE addresses (
  -> id INT PRIMARY KEY AUTO_INCREMENT,
  -> user_id INT NOT NULL,
  -> street_address VARCHAR(255),
  -> city VARCHAR(50),
  -> state VARCHAR(20),
  -> postal_code VARCHAR(10),
  -> FOREIGN KEY (user_id) REFERENCES users(id)
  -> );
Query OK, 0 rows affected (0.019 sec)
MariaDB [satish] > desc addresses
+----+
| Field | Type | Null | Key | Default | Extra
+----+
| street_address | varchar(255) | YES | NULL |
| NULL |
         | varchar(20) | YES |
                          NULL
| postal_code | varchar(10) | YES | NULL |
+-----
6 rows in set (0.002 sec)
```

```
Query OK, 0 rows affected (0.014 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish] > ALTER TABLE addresses
 -> DROP COLUMN user_id;
Query OK, 0 rows affected (0.019 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> desc addresses;
+----+
| Field | Type | Null | Key | Default | Extra
+----+
    | int(11) | NO | PRI | NULL | auto_increment |
| street_address | varchar(255) | YES | NULL
city | varchar(50) | YES | NULL
state | varchar(20) | YES |
                        NULL
| postal_code | varchar(10) | YES | NULL
+-----
5 rows in set (0.002 sec)
MariaDB [satish] > ALTER TABLE addresses
  -> ADD COLUMN user_id INT(11) NOT NULL,
  -> ADD FOREIGN KEY (user_id) REFERENCES users(id);
Query OK, 0 rows affected (0.034 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [satish]> desc addresses;
+----+
| Field | Type | Null | Key | Default | Extra
+----+
| street_address | varchar(255) | YES | | NULL
+-----
6 rows in set (0.002 sec)
```

MariaDB [satish] > ALTER TABLE addresses DROP FOREIGN KEY addresses_ibfk_1;