```
(base) arundhungana@Aruns-MacBook-Air ~ % /Applications/xampp/xamppfiles/bin/mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.28-MariaDB Source distribution

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

MariaDB [(none)]>
```

```
MariaDB [(none)]> CREATE DATABASE DBMS;
Query OK, 1 row affected (0.007 sec)
```

```
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| DBMS               |
| employee           |
| information_schema |
| mysql              |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
7 rows in set (0.019 sec)
```

```
MariaDB [employee]> use dbms;
Database changed
MariaDB [dbms]> drop database dbms;
Query OK, 0 rows affected, 2 warnings (0.010 sec)

MariaDB [(none)]>
```

```
MariaDB [dbms]> CREATE TABLE EMPLOYEE(
    -> Ssn INT NOT NULL,
    -> Fname varchar(25),
    -> Mnit varchar(25),
    -> Lname varchar(25),
    -> Bdate date,
    -> Address varchar(255),
    -> Sex char(1),
    -> Salary decimal(6,2),
    -> Super_ssn int,
    -> Dno INT,
    -> PRIMARY KEY (Ssn));
Query OK, 0 rows affected (0.012 sec)

MariaDB [dbms]> CREATE TABLE DEPARTMENT (
    -> Dname VARCHAR(10) NOT NULL,
    -> Dnumber INT NOT NULL,
    -> Mgr_ssn INT,
    -> Mgr_start_date date,
    -> PRIMARY KEY (Dnumber));
Query OK, 0 rows affected (0.011 sec)

MariaDB [dbms]> CREATE TABLE PROJECT (
    -> Pname VARCHAR(10) NOT NULL,
    -> Pnumber INTEGER NOT NULL,
    -> Plocation CHAR(9),
    -> Dnum INTEGER NOT NULL,
    -> PRIMARY KEY (Pnumber));
Query OK, 0 rows affected (0.010 sec)

MariaDB [dbms]> CREATE TABLE DEPENDENT (
    -> Essn int NOT NULL,
    -> Dependent_name varchar(25),
    -> Sex CHAR(1),
    -> Bdate date,
    -> Relationship VARCHAR(25),
    -> PRIMARY KEY (Essn,Dependent_name));
Query OK, 0 rows affected (0.010 sec)

MariaDB [dbms]> CREATE TABLE DEPT_LOCATIONS (
    -> Dnumber INT NOT NULL,
    -> Dlocation CHAR(9),
    -> PRIMARY KEY (Dnumber));
Query OK, 0 rows affected (0.013 sec)

MariaDB [dbms]> CREATE TABLE WORKS_ON (
    -> Essn INT NOT NULL,
    -> Pno INT NOT NULL,
    -> Hours INT,
    -> PRIMARY KEY (Essn,Pno));
Query OK, 0 rows affected (0.010 sec)
```

```
[MariaDB [dbms]> ALTER TABLE EMPLOYEE ADD FOREIGN KEY (Dno) REFERENCES DEPARTMENT (Dnumber);
Query OK, 0 rows affected (0.040 sec)
Records: 0  Duplicates: 0  Warnings: 0

[MariaDB [dbms]> ALTER TABLE EMPLOYEE ADD JOB VARCHAR(12);
Query OK, 0 rows affected (0.011 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [dbms]>
```

```
[MariaDB [dbms]> describe dbms;
ERROR 1146 (42S02): Table 'dbms.dbms' doesn't exist
[MariaDB [dbms]> describe employee;
+------------+---------------+------+-----+---------+-------+
| Field      | Type          | Null | Key | Default | Extra |
+------------+---------------+------+-----+---------+-------+
| Ssn        | int(11)       | NO   | PRI | NULL    |       |
| Fname      | varchar(25)   | YES  |     | NULL    |       |
| Mnit       | varchar(25)   | YES  |     | NULL    |       |
| Lname      | varchar(25)   | YES  |     | NULL    |       |
| Bdate      | date          | YES  |     | NULL    |       |
| Address    | varchar(255)  | YES  |     | NULL    |       |
| Sex        | char(1)       | YES  |     | NULL    |       |
| Salary     | decimal(6,2)  | YES  |     | NULL    |       |
| Super_ssn  | int(11)       | YES  |     | NULL    |       |
| Dno        | int(11)       | YES  | MUL | NULL    |       |
| JOB        | varchar(12)   | YES  |     | NULL    |       |
+------------+---------------+------+-----+---------+-------+
11 rows in set (0.013 sec)

MariaDB [dbms]>
```

```
[MariaDB [dbms]> alter table employee drop column mnit;
Query OK, 0 rows affected (0.015 sec)
Records: 0  Duplicates: 0  Warnings: 0

[MariaDB [dbms]> describe employee;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| Ssn       | int(11)      | NO   | PRI | NULL    |       |
| Fname     | varchar(25)  | YES  |     | NULL    |       |
| Lname     | varchar(25)  | YES  |     | NULL    |       |
| Bdate     | date         | YES  |     | NULL    |       |
| Address   | varchar(255) | YES  |     | NULL    |       |
| Sex       | char(1)      | YES  |     | NULL    |       |
| Salary    | decimal(6,2) | YES  |     | NULL    |       |
| Super_ssn | int(11)      | YES  |     | NULL    |       |
| Dno       | int(11)      | YES  | MUL | NULL    |       |
| JOB       | varchar(12)  | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
10 rows in set (0.006 sec)

MariaDB [dbms]>
```

```
[MariaDB [dbms]> alter table employee modify column Fname varchar(10);
Query OK, 0 rows affected (0.033 sec)
Records: 0  Duplicates: 0  Warnings: 0

[MariaDB [dbms]> describe employee;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| Ssn       | int(11)      | NO   | PRI | NULL    |       |
| Fname     | varchar(10)  | YES  |     | NULL    |       |
| Lname     | varchar(25)  | YES  |     | NULL    |       |
| Bdate     | date         | YES  |     | NULL    |       |
| Address   | varchar(255) | YES  |     | NULL    |       |
| Sex       | char(1)      | YES  |     | NULL    |       |
| Salary    | decimal(6,2) | YES  |     | NULL    |       |
| Super_ssn | int(11)      | YES  |     | NULL    |       |
| Dno       | int(11)      | YES  | MUL | NULL    |       |
| JOB       | varchar(12)  | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
10 rows in set (0.008 sec)

MariaDB [dbms]>
```

```
MariaDB [dbms]> INSERT INTO EMPLOYEE (Fname, Lname, Ssn)
    -> VALUES ('Arun', 'Dhungana', '123456789');
Query OK, 1 row affected (0.008 sec)

MariaDB [dbms]> select* from employee;
+-------------+--------+-----------+--------+----------+--------+----------+------------+--------+--------+
| Ssn         | Fname  | Lname     | Bdate  | Address  | Sex    | Salary   | Super_ssn  | Dno    | JOB    |
+-------------+--------+-----------+--------+----------+--------+----------+------------+--------+--------+
| 123456789   | Arun   | Dhungana  | NULL   | NULL     | NULL   | NULL     | NULL       | NULL   | NULL   |
+-------------+--------+-----------+--------+----------+--------+----------+------------+--------+--------+
1 row in set (0.006 sec)

MariaDB [dbms]>
```

```
MariaDB [dbms]> create table customer(
    -> Fname varchar(20),
    -> Lname varchar(30));
Query OK, 0 rows affected (0.012 sec)

MariaDB [dbms]> INSERT INTO customer (Fname, Lname) VALUES
    -> ('Kristen', 'Rowley'),
    -> ('Jed', 'Tomlinson'),
    -> ('Margie', 'Escobar'),
    -> ('Harriette', 'Mejia'),
    -> ('Francis', 'Little');
Query OK, 5 rows affected (0.004 sec)
Records: 5  Duplicates: 0  Warnings: 0

MariaDB [dbms]> show tables;
+----------------+
| Tables_in_dbms |
+----------------+
| DEPARTMENT     |
| DEPENDENT      |
| DEPT_LOCATIONS |
| PROJECT        |
| WORKS_ON       |
| customer       |
| employee       |
+----------------+
7 rows in set (0.001 sec)

MariaDB [dbms]> select* from customer;
+-----------+-----------+
| Fname     | Lname     |
+-----------+-----------+
| Kristen   | Rowley    |
| Jed       | Tomlinson |
| Margie    | Escobar   |
| Harriette | Mejia     |
| Francis   | Little    |
+-----------+-----------+
5 rows in set (0.001 sec)

MariaDB [dbms]>
```

```
[MariaDB [dbms]> delete from employee where Ssn='123456789';
Query OK, 1 row affected (0.005 sec)

[MariaDB [dbms]> select* from employee;
Empty set (0.001 sec)

MariaDB [dbms]>
```

```
[MariaDB [dbms]> update customer
[    -> set Fname='Pablo'
[    -> where Lname='Escobar';
Query OK, 1 row affected (0.005 sec)
Rows matched: 1  Changed: 1  Warnings: 0

[MariaDB [dbms]> select* from customer;
+-----------+-----------+
| Fname     | Lname     |
+-----------+-----------+
| Kristen   | Rowley    |
| Jed       | Tomlinson |
| Pablo     | Escobar   |
| Harriette | Mejia     |
| Francis   | Little    |
+-----------+-----------+
5 rows in set (0.001 sec)

MariaDB [dbms]>
```