

```

Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.11.2-MariaDB Arch Linux

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

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| class    |
| class_stuff |
| dbms_lab |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
| test     |
| test_libreoffice |
+-----+
9 rows in set (0.004 sec)

MariaDB [(none)]> use dbms_lab
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 [dbms_lab]> show tables;
+-----+
| Tables_in_dbms_lab |
+-----+
| books               |
| course              |
| new_book_master     |
| newauthor           |
| newbook_master      |
+-----+
5 rows in set (0.001 sec)

MariaDB [dbms_lab]> create table Hotel (HotelNo int Primary Key, Name varchar(50),
    City varchar(50));
Query OK, 0 rows affected (0.020 sec)

MariaDB [dbms_lab]> describe Hotel;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| HotelNo | int(11)       | NO   | PRI | NULL    |       |

```

Field	Type	Null	Key	Default	Extra
Name	varchar(50)	YES		NULL	
City	varchar(50)	YES		NULL	

3 rows in set (0.002 sec)

```
MariaDB [dbms_lab]> create table Room (RoomNo int Primary Key, HotelNo int, Type
    varchar(50), Price int, foreign key(HotelNo) references Hotel(HotelNo));
Query OK, 0 rows affected (0.014 sec)
```

```
MariaDB [dbms_lab]> describe Room;
```

Field	Type	Null	Key	Default	Extra
RoomNo	int(11)	NO	PRI	NULL	
HotelNo	int(11)	YES	MUL	NULL	
Type	varchar(50)	YES		NULL	
Price	int(11)	YES		NULL	

4 rows in set (0.002 sec)

```
MariaDB [dbms_lab]> create table Booking (HotelNo int, GuestNo int, DateFrom date,
    DateTo date, RoomNo int, foreign key(HotelNo) references Hotel(HotelNo),
    foreign key(RoomNo) references Room(RoomNo));
Query OK, 0 rows affected (0.011 sec)
```

```
MariaDB [dbms_lab]> describe Booking;
```

Field	Type	Null	Key	Default	Extra
HotelNo	int(11)	YES	MUL	NULL	
GuestNo	int(11)	YES		NULL	
DateFrom	date	YES		NULL	
DateTo	date	YES		NULL	
RoomNo	int(11)	YES	MUL	NULL	

5 rows in set (0.002 sec)

```
MariaDB [dbms_lab]> create table Guest(GuestNo int primary key, GuestName varchar
    (50), GuessAddress varchar(50));
Query OK, 0 rows affected (0.007 sec)
```

```
MariaDB [dbms_lab]> alter table Booking add constraint foreign key(GuestNo)
    references Guest(GuestNo);
Query OK, 0 rows affected (0.022 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [dbms_lab]> describe Booking;
```

Field	Type	Null	Key	Default	Extra
HotelNo	int(11)	YES	MUL	NULL	
GuestNo	int(11)	YES	MUL	NULL	
DateFrom	date	YES		NULL	
DateTo	date	YES		NULL	
RoomNo	int(11)	YES	MUL	NULL	

5 rows in set (0.004 sec)

```
MariaDB [dbms_lab]> describe Guest;
```

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| GuestNo    | int(11)   | NO   | PRI | NULL    |       |
| GuestName  | varchar(50)| YES  |     | NULL    |       |
| GuessAddress | varchar(50)| YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

```

MariaDB [dbms_lab]> describe Room;

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| RoomNo     | int(11)   | NO   | PRI | NULL    |       |
| HotelNo    | int(11)   | YES  | MUL | NULL    |       |
| Type       | varchar(50)| YES  |     | NULL    |       |
| Price      | int(11)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

```

MariaDB [dbms_lab]> describe Hotel;

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| HotelNo    | int(11)   | NO   | PRI | NULL    |       |
| Name       | varchar(50)| YES  |     | NULL    |       |
| City       | varchar(50)| YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
3 rows in set (0.002 sec)

```

```

ariaDB [dbms_lab]> create table emp(eno int primary key, ename varchar(50), zip
    int check(zip in (400110, 400111)), hdate date unique);
Query OK, 0 rows affected (0.009 sec)

```

MariaDB [dbms_lab]> describe emp;

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| eno        | int(11)   | NO   | PRI | NULL    |       |
| ename      | varchar(50)| YES  |     | NULL    |       |
| zip        | int(11)   | YES  |     | NULL    |       |
| hdate      | date      | YES  | UNI | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

```

```

MariaDB [dbms_lab]> create table parts(pno int primary key, pname varchar(50),
    qty_on_hand int not null, price int);
Query OK, 0 rows affected (0.007 sec)

```

MariaDB [dbms_lab]> describe parts;

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| pno        | int(11)   | NO   | PRI | NULL    |       |
| pname      | varchar(50)| YES  |     | NULL    |       |
| qty_on_hand | int(11)   | NO   |     | NULL    |       |
| price      | int(11)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

```

```

MariaDB [dbms_lab]> create table customer(cno primary key, cname varchar(50),
      street varchar(50), Zip int not null, phone int not null unique);
ERROR 4161 (HY000): Unknown data type: 'primary'
MariaDB [dbms_lab]> create table customer(cno int primary key, cname varchar(50),
      street varchar(50), Zip int not null, phone int not null unique);
Query OK, 0 rows affected (0.009 sec)

MariaDB [dbms_lab]> describe customer;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cno   | int(11)       | NO   | PRI | NULL    |       |
| cname | varchar(50)   | YES  |     | NULL    |       |
| street | varchar(50)  | YES  |     | NULL    |       |
| Zip   | int(11)       | NO   |     | NULL    |       |
| phone | int(11)       | NO   | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.002 sec)

MariaDB [dbms_lab]> create table Orders(ono int primary key, cno int, receivedDate
      date, shippedDate date, foreign key(cno) references customer(cno));
Query OK, 0 rows affected (0.010 sec)

MariaDB [dbms_lab]> describe Orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ono   | int(11)       | NO   | PRI | NULL    |       |
| cno   | int(11)       | YES  | MUL | NULL    |       |
| receivedDate | date       | YES  |     | NULL    |       |
| shippedDate | date       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.002 sec)

MariaDB [dbms_lab]> create table odetails(ono int, pno int, qty int, foreign key(
      ono) references Orders(ono));
Query OK, 0 rows affected (0.009 sec)

MariaDB [dbms_lab]> describe odetails;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ono   | int(11)       | YES  | MUL | NULL    |       |
| pno   | int(11)       | YES  |     | NULL    |       |
| qty   | int(11)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.002 sec)

MariaDB [dbms_lab]> create table zipcode(zip int primary key, city varchar(50) not
      null check(city in ('Pune', 'Mumbai')));
Query OK, 0 rows affected (0.008 sec)

MariaDB [dbms_lab]> describe zipcode;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| zip   | int(11)       | NO   | PRI | NULL    |       |
| city  | varchar(50)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+

```