## 1. Creating Database:

```
MariaDB [(none)]> create database labsheet1;
Query OK, 1 row affected (0.00 sec)
```

# 2. Listing existing databases:

# 3. Selecting specific database:

```
MariaDB [(none)]> use labsheet1;
Database changed
MariaDB [labsheet1]>
```

## 4. Listing existing tables:

# **5.Details of the table in database:**

Field	Type	Null	Key	Default	Extra
building   room_number   capacity	varchar(15) varchar(7) decimal(4,0)	NO NO YES	PRI PRI	NULL NULL NULL	

Field	Type	Null	Key	Default	Extra
dept name	varchar(20)	NO NO	PRI	NULL	
building		YES	İ	NULL	İ
budget	decimal(12,2)	YES		NULL	ĺ

Field	Type	Null	Key	Default	Extra
course id	varchar(8)	NO NO	PRI	NULL	
title _	varchar(50)	YES	İ	NULL	ĺ
dept_name	varchar(20)	YES	MUL	NULL	į
credits	decimal(2,0)	YES		NULL	

Field	Type	Null	Key	Default	Extra
ID	varchar(5)	NO NO	PRI	NULL	
name	varchar(20)	NO		NULL	
dept_name	varchar(20)	YES	MUL	NULL	
salary	decimal(8,2)	YES		NULL	

Field	Type	Null	Key	Default	Extra
course id	varchar(8)	NO NO	PRI	NULL	
sec id	varchar(8)	NO	PRI	NULL	ĺ
semester	varchar(6)	NO	PRI	NULL	İ
year	decimal(4,0)	NO	PRI	NULL	İ
building	varchar(15)	YES	MUL	NULL	ĺ
room number	varchar(7)	YES		NULL	ĺ
time slot id	varchar(4)	YES		NULL	İ

Field	Type	Null	Key	Default	Extra
ID	varchar(5)	NO NO	PRI	NULL	
course id	varchar(8)	NO	PRI	NULL	ĺ
sec id	varchar(8)	NO	PRI	NULL	
semester	varchar(6)	NO	PRI	NULL	ĺ
year	decimal(4,0)	NO	PRI	NULL	

Field	Type	Null	Key	Default	Extra
ID	varchar(5)	NO	PRI	NULL	
name	varchar(20)	NO		NULL	
dept_name	varchar(20)	YES	MUL	NULL	
tot cred	decimal(3,0)	YES	ĺ	NULL	

Field	Type	Null	Key	Default	Extra
ID	varchar(5)	NO NO	PRI	NULL	
course id	varchar(8)	NO	PRI	NULL	ĺ
sec id	varchar(8)	NO	PRI	NULL	ĺ
semester	varchar(6)	NO	PRI	NULL	ĺ
year	decimal(4,0)	NO	PRI	NULL	İ
grade	varchar(2)	YES	İ	NULL	İ

## **6.Populating tables:**

#### I. Table: classroom;

## II. Table: department;

#### III. Table : course;

#### **IV. Table : instructor;**

```
MariaDB [labsheet1]> insert into instructor
-> values ("12345","James Thapa", "Mathematics",5000000);
Query OK, 1 row affected, 1 warning (0.04 sec)

MariaDB [labsheet1]> insert into instructor
-> values ("48687", "Sushmita Basnet", "ComputerEngineering", 6000000);
Query OK, 1 row affected, 1 warning (0.08 sec)
```

#### V. Table: section;

# VI. Table: teaches;

```
MariaDB [labsheet1]> insert into teaches
-> values ("12345", "MATH207", "MS403", "Spring", 2018);
Query OK, 1 row affected (0.14 sec)
```

```
MariaDB [labsheet1]> insert into teaches
-> values ("48687", "COMP232","CS402", "Fall", 2017);
Query OK, 1 row affected (0.05 sec)
```

#### VII. Table: student;

#### VIII. Table:takes;

#### IX. Table : advisor;

```
MariaDB [labsheet1]> insert into advisor
-> values ("34576", "48687");
Query OK, 1 row affected (0.06 sec)

MariaDB [labsheet1]> insert into advisor
-> values ("34675", "12345");
Query OK, 1 row affected (0.04 sec)
```

```
MariaDB [labsheet1]> select * from advisor;

+----+

| s_ID | i_ID |

+----+

| 34675 | 12345 |

| 34576 | 48687 |

+----+

2 rows in set (0.00 sec)
```

## X. Table: time slot;

```
MariaDB [labsheet1]> insert into time_slot
-> values ("2345", "4", 12, 30, 02, 30);
Query OK, 1 row affected (0.04 sec)

MariaDB [labsheet1]> insert into time_slot
-> values ("4354", "5", 09, 15, 11, 15);
Query OK, 1 row affected (0.06 sec)
```

#### XI. Table : prereq;

```
MariaDB [labsheet1]> insert into prereq
-> values ("MATH207", "COMP232");
Query OK, 1 row affected (0.03 sec)

MariaDB [labsheet1]> insert into prereq
-> values ("COMP232", "MATH207");
Query OK, 1 row affected (0.06 sec)

MariaDB [labsheet1]> select * from prereq;
+-----+
| course_id | prereq_id |
+-----+
| COMP232 | MATH207 |
| MATH207 | COMP232 |
+-----+
2 rows in set (0.00 sec)
```

## 7. Dropping tables from database:

```
MariaDB [labsheet1]> drop table classroom;
Query OK, 0 rows affected (0.07 sec)
MariaDB [labsheet1]> drop table department;
Query OK, 0 rows affected (0.22 sec)
MariaDB [labsheet1]> drop table course;
Query OK, 0 rows affected (0.20 sec)
MariaDB [labsheet1]> drop table instructor;
Query OK, 0 rows affected (0.26 sec)
MariaDB [labsheet1]> drop table section;
Query OK, 0 rows affected (0.18 sec)
MariaDB [labsheet1]> drop table teaches;
Query OK, 0 rows affected (0.21 sec)
MariaDB [labsheet1]> drop table student;
Query OK, 0 rows affected (0.16 sec)
MariaDB [labsheet1]> drop table takes;
Query OK, 0 rows affected (0.25 sec)
MariaDB [labsheet1]> drop table advisor;
Query OK, 0 rows affected (0.18 sec)
MariaDB [labsheet1]> drop table time slot;
Query OK, 0 rows affected (0.24 sec)
MariaDB [labsheet1]> drop table prereq;
Query OK, 0 rows affected (0.18 sec)
```

# 8. Dropping database itself:

MariaDB [labsheet1]> drop database labsheet1; Query OK, 0 rows affected (0.03 sec)