

1) Create a table name STUDENT with following structure.

| S.nO | Column Name | Description | Data Type |
|------|-------------|-----------------------|-------------|
| 1 | RegNo | Registration Number | NUMBER(3) |
| 2 | Name | Student Name | VARCHAR(15) |
| 3 | Gender | Gender of the student | CHAR(1) |
| 4 | DOB | Date of Birth | DATE |
| 5 | MobileNo | Mobile Number | NUMBER(10) |
| 6 | City | Location of stay | VARCHAR(15) |

```

MySQL 5.5 Command Line Client
Your MySQL connection id is 4
Server version: 5.5.62 MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| student |
| test |
+-----+
5 rows in set (0.01 sec)

mysql> use test;
Database changed
mysql> create table student(regno integer(3),name varchar(15),gender char(1),dob date,mobileno integer(10),city varchar(15));
Query OK, 0 rows affected (0.01 sec)

mysql> describe student;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| regno | int(3) | YES | | NULL | |
| name | varchar(15) | YES | | NULL | |
| gender | char(1) | YES | | NULL | |
| dob | date | YES | | NULL | |
| mobileno | int(10) | YES | | NULL | |
| city | varchar(15) | YES | | NULL | |
+-----+
6 rows in set (0.02 sec)

mysql>

```

2) Create a table name FACULTY with following structure.

| S.nO | Column Name | Description | Data Type |
|------|-------------|--------------------|-------------|
| 1 | FacNo | Faculty Identifier | VARCHAR(4) |
| 2 | FacName | Faculty Name | VARCHAR(15) |
| 3 | Gender | Gender of faculty | CHAR(1) |
| 4 | DOB | Date of Birth | DATE |
| 5 | DOJ | Date of Join | DATE |
| 6 | MobileNo | Mobile Number | NUMBER(10) |

MySQL 5.5 Command Line Client

```
mysql> create database faculty;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
ty' at line 1
mysql> create database faculty;
Query OK, 1 row affected (0.00 sec)

mysql> use faculty;
Database changed
mysql> create table faculty(facno varchar(4),facname varchar(15),gender char(1),dob date,doj date,mobileno integer(10));
Query OK, 0 rows affected (0.02 sec)

mysql> describe faculty;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| facno  | varchar(4) | YES  |     | NULL    |       |
| facname | varchar(15) | YES  |     | NULL    |       |
| gender | char(1)    | YES  |     | NULL    |       |
| dob    | date       | YES  |     | NULL    |       |
| doj    | date       | YES  |     | NULL    |       |
| mobileno | int(10)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.03 sec)
```

3) Create a table name DEPARTMENT with following structure.

| S.nO | Column Name | Description | Data Type |
|------|-------------|-----------------------|-------------|
| 1 | DeptNo | Department Identifier | VARCHAR(4) |
| 2 | DeptName | Department Name | VARCHAR(15) |
| 3 | DeptHead | Department Head | VARCHAR(4) |

```
MySQL 5.5 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 5.5.62 MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

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

mysql> create database department;
Query OK, 1 row affected (0.00 sec)

mysql> use department;
Database changed
mysql> create table department(deptno varchar(4),deptname varchar(15),depthead varchar(4));
Query OK, 0 rows affected (0.02 sec)

mysql> describe department;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| deptno | varchar(4) | YES |  | NULL |  |
| deptname | varchar(15) | YES |  | NULL |  |
| depthead | varchar(4) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql>
```

4) Create a table name COURSE with following structure.

| S.nO | Column Name | Description | Data Type |
|------|-------------|--------------------|-------------|
| 1 | CourseNo | Course Identifier | VARCHAR(3) |
| 2 | CourseDesc | Description | VARCHAR(14) |
| 3 | CourseType | Course Type | CHAR(1) |
| 4 | SemNo | Semester Number | CHAR(1) |
| 5 | HallNo | Hall Number | VARCHAR(4) |
| 6 | FacNo | Faculty Identifier | VARCHAR(4) |

```

MySQL 5.5 Command Line Client
mysql> create database course;
Query OK, 1 row affected (0.00 sec)

mysql> use course;
Database changed
mysql> create table course(courseno varchar(3),coursedesc varchar(14),coursetype char(1),semno char(1),hallno varchar(4),facno varchar(4));
Query OK, 0 rows affected (0.04 sec)

mysql> describe course;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| courseno | varchar(3) | YES | | NULL | |
| coursedesc | varchar(14) | YES | | NULL | |
| coursetype | char(1) | YES | | NULL | |
| semno | char(1) | YES | | NULL | |
| hallno | varchar(4) | YES | | NULL | |
| facno | varchar(4) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.04 sec)

mysql>

```

5) Modify the table FACULTY by adding a column name DeptNo of datatype VARCHAR(4)

```

MySQL 5.5 Command Line Client
mysql> use faculty;
Database changed
mysql> create table faculty(facno varchar(4),facname varchar(15),gender char(1),dob date,doj date,mobilenumber integer(10));
Query OK, 0 rows affected (0.02 sec)

mysql> alter table faculty add deptno varchar(4);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> describe faculty;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| facno | varchar(4) | YES | | NULL | |
| facname | varchar(15) | YES | | NULL | |
| gender | char(1) | YES | | NULL | |
| dob | date | YES | | NULL | |
| doj | date | YES | | NULL | |
| mobilenumber | int(10) | YES | | NULL | |
| deptno | varchar(4) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.02 sec)

mysql>

```