Ex.No. 1

1) Create a table name STUDENT with following structure.

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

mysql> use student;

Database changed

mysql> create table student(regnno int(3), name varchar(15), gender char(1), dob DATE, Mobileno int(10), city varchar(15));

Query OK, 0 rows affected, 2 warnings (0.10 sec)

mysql> desc student;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| regnno | int | YES | | NULL | |

| name | varchar(15) | YES | | NULL | |

| gender | char(1) | YES | | NULL | |

| dob | date | YES | | NULL | |

| Mobileno | int | YES | | NULL | |

| city | varchar(15) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

2) Create a table name FACULTY with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 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> create database faculty;

Query OK, 1 row affected (0.07 sec)

mysql> use faculty;

Database changed

mysql> create table faculty(facno varchar(4), Facname varchar(15), gender Char(1), dob DATE, doj DATE, mobileno int(10));

Query OK, 0 rows affected, 1 warning (0.09 sec)

mysql> desc 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 | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

3) Create a table name DEPARTMENT with following structure.

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

mysql> create database department;

Query OK, 1 row affected (0.07 sec)

mysql> use department;

Database changed

mysql> create table department(deptno varchar(4), deptname varchar(15), depthead varchar(4));

Query OK, 0 rows affected (0.09 sec)

mysql> desc 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 (0.00 sec)

4) Create a table name COURSE with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Column |  |  |  |
| # | Name | Description | Data Type |  |
|  |  |  |
| 1 | CourseNo | Course Identifier | VARCHAR(3) |  |
|  |  | Course |  |  |
| 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> create database course;

Query OK, 1 row affected (0.06 sec)

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 (0.08 sec)

mysql> desc 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 (0.00 sec)

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

mysql> use faculty;

Database changed

mysql> ALTER TABLE faculty Add DeptNo VARCHAR(4);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc 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 | YES | | NULL | |

| DeptNo | varchar(4) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

7 rows in set (0.00 sec)