1) Alter the table STUDENT with following structure.

|  |  |  |
| --- | --- | --- |
|  | Column | Constraints |
| # | Name |  |
|  |  | PRIMARY |
| 1 | RegNo | KEY |
| 2 | MobileNo | NOT NULL |

mysql> use student;

Database changed

mysql> alter table student add primary key(regno);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table student modify column Mobileno varchar(20) NOT NULL;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| regno | int | NO | PRI | NULL | |

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

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

| dob | date | YES | | NULL | |

| Mobileno | varchar(20) | NO | | NULL | |

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

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

6 rows in set (0.00 sec)

1. Alter the table name FACULTY with following structure. The DeptNo in this table refers the DeptNo in the DEPARTMENT table.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Column | | Constraints |  |  |  |  |
|  | # |  | Name | |  |  |  |  |  |
|  |  |  | FacNo | | PRIMARY |  |  |  |  |
|  | 1 |  | KEY |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  | Gender | | CHECK |  |  |  |  |
|  | 2 |  | ‘M’ or ‘F’ |  |  |  |  |
|  |  |  |  |  |  |  |  |

mysql> use faculty;

Database changed

mysql> alter table faculty add primary key(Facno);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3) | Alter the table name DEPARTMENT with following structure. | | | | | | |
|  |  |  |  |  | |  |  |
|  |  | Column |  | Constraint | |  |  |
| # |  | Name |  |  |  |  |  |
|  |  | DeptNo |  | PRIMARY | |  |  |
| 1 |  |  | KEY | |  |  |
|  |  |  |  |  |

mysql> use department;

Database changed

mysql> desc department;

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

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

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

| deptno | varchar(4) | NO | PRI | NULL | |

| deptname | varchar(15) | YES | | NULL | |

| depthead | varchar(4) | YES | | NULL | |

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

3 rows in set (0.04 sec)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 4) | Alter the table name COURSE with following structure. | | | | | | |  |
|  |  |  |  | |  | | |  |  |
|  |  |  | Column |  | Constraint | | |  |  |
|  | # |  | Name |  |  |  |  |  |  |
|  |  |  | CourseNo |  | PRIMARY | | |  |  |
|  | 1 |  |  | KEY | | |  |  |
|  |  |  |  |  |  |
|  | 2 |  | SemNo |  | 1 to 6 | | |  |  |

mysql> use course;

Database changed

mysql> alter table course add primary key(courseno);

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table course

-> add check(semno>=1&&semno<=6);

Query OK, 5 rows affected, 1 warning (0.04 sec)

Records: 5 Duplicates: 0 Warnings: 1

mysql> desc course;

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

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

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

| courseno | varchar(3) | NO | PRI | NULL | |

| coursedesc | varchar(14) | YES | | NULL | |

| coursetype | varchar(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)