

1)Alter the table STUDENT with following structure.

S.No	Column	Constraints
1	RegNo	PRIMARY KEY
2	MobileNo	NotNull

Ans)

```
mysql> use d2;
Database changed
mysql> alter table student add primary key(regno);
ERROR 1068 (42000): Multiple primary key defined
mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| regno | int(3) | NO | PRI | 0 | |
| name | varchar(15) | YES | | NULL | |
| gander | char(1) | YES | | NULL | |
| dob | date | YES | | NULL | |
| mobileno | int(10) | NO | | NULL | |
| city | varchar(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.03 sec)
```

2) Alter
the table
name

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

S.No	Column	Constraints
1	FacNo	PRIMARY KEY
2	Gender	Check 'M' or 'F'

Ans)

```
mysql> alter table faculty add primary key(facno);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table faculty add check(gender='M' or 'F');
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc faculty;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Facno | int(3) | NO | PRI | NULL | |
| FacName | char(15) | YES | | NULL | |
| gender | char(1) | YES | | NULL | |
| Dob | int(10) | YES | | NULL | |
| mobileno | int(10) | YES | | NULL | |
| DOJ | int(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

3)Alter the FACULTY table is successfully created, test if you add a constraint FOREIGN KEY to the DeptNo of this table.

Ans

```
mysql> use db;
Database changed
mysql> alter table faculty add foreign key(deptno) references department(deptno);
ERROR 1472 (20000): Cannot add or update a child row: a foreign key constraint fails `db`.`faculty`, CONSTRAINT `fk12300_1` FOREIGN KEY (`deptno`) REFERENCES `department` (`deptno`)
mysql>
```

4)Alter the table name DEPARTMENT with following structure.

S.No	Column	Constraints
1	DeptNo	PRIMARY KEY

Ans)

```
mysql> desc department;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| deptno     | int(10)   | NO   | PRI | NULL    |       |
| deptname   | char(10)  | YES  |     | NULL    |       |
| depthead   | char(10)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

5. Alter the table name COURSE with following Structure

S.No	Column	Constraints
1	CourseNo	PRIMARY KEY
2	SemNo	1 to 6

Ans)

```
mysql> alter table course add primary key(courseno);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table course add check(semno>=1&&semno<=6);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc course;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| courseno   | int(3)    | NO   | PRI | NULL    |       |
| coursedesc | char(15)  | YES  |     | NULL    |       |
| coursetype | char(1)   | YES  |     | NULL    |       |
| semno      | int(10)   | YES  |     | NULL    |       |
| hallno     | int(10)   | YES  |     | NULL    |       |
| Facno      | int(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```