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COURSE CODE : CSA0520
COURSE NAME : DATABASE MANAGEMENT FOR DATA ANALYTICS

Questions:

1) Alter the table STUDENT with following structure.

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

2) Alter the table name FACULTY with following structure. The DeptNo in this table refers the DeptNo inthe DEPARTMENT table.

#	Column Name	Constraints	
1	FacNo	PRIMARY KEY	
2	Gender	CHECK 'M' or 'F'	

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

4)Alter the table name DEPARTMENT with following structure.

#	Column Name	Constraint	
1	DeptNo	PRIMARY KEY	

5) Alter the table name COURSE with following structure.

#	Column Name	Constraint	
1	CourseNo	PRIMARY KEY	
2	SemNo	1 to 6	

1)

```
mysql> alter table student add primary key(city);
Query OK, 0 rows affected (0.14 sec)
mysql> desc student;
+----------+----------+------+-----+---------+-------+
| Field    | Type     | Null | Key | Default | Extra |
+----------+----------+------+-----+---------+-------+
| Regno    | int(3)   | YES  |     | NULL    |       |
| Name     | char(15) | YES  |     | NULL    |       |
| gender   | char(1)  | YES  |     | NULL    |       |
| Dob      | int(10)  | YES  |     | NULL    |       |
| mobileno | int(10)  | YES  |     | NULL    |       |
| city     | char(10) | NO   | PRI | NULL    |       |
+----------+----------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

2)

```
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)
```

4)

```
mysql> alter table department add primary key(deptno);
Query OK, 0 rows affected (0.11 sec)
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)

```
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)
```