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COURSE : DATABASE MANAGEMENT SYSTEMS FOR DATA ANALYTICS.
COURSE CODE : CSA0520.

1) Create a table name STUDENT with following structure.

| 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) |

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) |

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) |

4) Create a table name COURSE with following structure.

| Column # | Name | Description | Data Type |
|----------|------------|--------------------|-------------|
| 1 | CourseNo | Course Identifier | VARCHAR(3) |
| 2 | CourseDesc | Course 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) |

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

OUTPUTS:

1)

```
mysql> create table student(Regno int(3),Name char(15),gender char(1),Dob int(10),mobilen no int(10),city char(10));
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 | |
| mobilen no | int(10) | YES | | NULL | |
| city | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

2)

```
mysql> create table faculty(Facno int(3),FacName char(15),gender char(1),Dob int(10),mobilen no int(10),DOJ int(10));
Query OK, 0 rows affected (0.06 sec)

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

3)

```
mysql> create table department(deptno int(10),deptname char(10),depthead char(10));
Query OK, 0 rows affected (0.11 sec)

mysql> desc department;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| deptno     | int(10)   | YES  |     | NULL    |       |
| deptname   | char(10)  | YES  |     | NULL    |       |
| depthead   | char(10)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

4)

```
mysql> create table course(courseno int(3),coursedesc char(15),coursetype char(1),semno int(10),hallno int(10),facno int(10));
Query OK, 0 rows affected (0.09 sec)

mysql> desc course;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| courseno   | int(3)    | YES  |     | 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)
```

5)

```
mysql> alter table faculty add dept char(10);
```

```
Query OK, 2 rows affected (0.09 sec)
```

```
Records: 2 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 | |
| mobilen | int(10) | YES | | NULL | |
| DOJ | int(10) | YES | | NULL | |
| dept | char(10) | YES | | NULL | |

```
7 rows in set (0.00 sec)
```