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Day 1

1) Create a table name STUDENT with following structure.

	Column	Description	Data Type
#	Name		
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)

Query:

```
CREATE TABLE student(RegNo int(3), Name varchar(15), Gender char(1), DOB int(10), MobileNo int(10), City char(10));
```

Output:

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 5.5.62 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE sse;
Query OK, 1 row affected (0.08 sec)

mysql> USE sse;
Database changed
mysql> CREATE TABLE student(RegNo int(3),Name varchar(15),Gender char(1),DOB int(10),MobileNo int(10),City char(10));
Query OK, 0 rows affected (0.34 sec)

mysql> DESC student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| RegNo | int(3) | YES | | NULL | |
| Name | varchar(15) | YES | | NULL | |
| Gender | char(1) | YES | | NULL | |
| DOB | int(10) | YES | | NULL | |
| MobileNo | int(10) | YES | | NULL | |
| City | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.14 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)

Query:

```
CREATE TABLE faculty(FacNo varchar(4),FacName char(15), Gender  
char(1), DOB int(10),DOJ int(10),MobileNo int(10));
```

Output:

```
mysql> USE sse;  
Database changed  
mysql> DESC faculty;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| facNo | varchar(3) | YES | | NULL | |  
| facName | char(15) | YES | | NULL | |  
| Gender | char(1) | YES | | NULL | |  
| DOB | int(10) | YES | | NULL | |  
| DOJ | int(10) | YES | | NULL | |  
| mobileNo | int(10) | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
6 rows in set (0.01 sec)
```

3) Create a table name DEPARTMENT with following structure.

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

Query:

```
CREATE TABLE department(DeptNo varchar(4),DeptName  
varchar(15),DeptHead varchar(4));
```

Output:

```
mysql> CREATE TABLE department(deptNo varchar(10),deptName char(15),deptHead varchar(10));  
Query OK, 0 rows affected (0.08 sec)  
  
mysql> DESC department;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| deptNo     | varchar(10)   | YES  |     | NULL    |       |  
| deptName   | char(15)      | YES  |     | NULL    |       |  
| deptHead   | varchar(10)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.01 sec)
```

4) Create a table name COURSE with following structure.

	Column	Description	Data Type
#	Name		
1	CourseNo	Course Identifier	VARCHAR(3)
2	CourseDes c	Course Description	VARCHAR(14)
3	CourseTyp e	Course Type	CHAR(1)
4	SemNo	Semester Number	CHAR(1)

5	HallNo	Hall Number	VARCHAR(4)
6	FacNo	Faculty Identifier	VARCHAR(4)

Query:

CREATE TABLE course(courseNo varchar(3),coursedesc varchar(14), coursetype char(1), Semno char(1),Hallno varchar(4),Facno varchar(4));

Output:

```
mysql> CREATE TABLE course(courseNo varchar(3),coursedesc varchar(15),courseType char(1),s
Query OK, 0 rows affected (0.18 sec)

mysql> DESC course;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| courseNo   | varchar(3)    | YES  |     | NULL    |       |
| coursedesc | varchar(15)   | YES  |     | NULL    |       |
| courseType | char(1)       | YES  |     | NULL    |       |
| semNo      | char(10)      | YES  |     | NULL    |       |
| hallNo     | varchar(10)   | YES  |     | NULL    |       |
| facNo      | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.04 sec)
```

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

Query:

ALTER TABLE faculty ADD Deptno varchar(4);

Output:

```
mysql> USE sse;  
Database changed  
mysql> DESC faculty;
```

Field	Type	Null	Key	Default	Extra
facNo	varchar(3)	YES		NULL	
facName	char(15)	YES		NULL	
Gender	char(1)	YES		NULL	
DOB	int(10)	YES		NULL	
DOJ	int(10)	YES		NULL	
mobileNo	int(10)	YES		NULL	

```
6 rows in set (0.01 sec)
```

```
mysql> ALTER TABLE faculty ADD deptNo varchar(10);  
Query OK, 0 rows affected (0.31 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> DESC faculty;
```

Field	Type	Null	Key	Default	Extra
facNo	varchar(3)	YES		NULL	
facName	char(15)	YES		NULL	
Gender	char(1)	YES		NULL	
DOB	int(10)	YES		NULL	
DOJ	int(10)	YES		NULL	
mobileNo	int(10)	YES		NULL	
deptNo	varchar(10)	YES		NULL	

```
7 rows in set (0.01 sec)
```