

DDL Commands – CREATE, ALTER, DROP

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)

OUTPUT:

```
mysql> create table STUDENT(RegNo int(3), Name varchar(15), Gender char(1), DOB date, MobileNumber int(10), City varchar(15));
ERROR 1050 (42S01): Table 'student' already exists
mysql> describe STUDENT;
```

Field	Type	Null	Key	Default	Extra
RegNo	int	YES		NULL	
Name	varchar(15)	YES		NULL	
Gender	char(1)	YES		NULL	
DOB	date	YES		NULL	
MobileNumber	int	YES		NULL	
City	varchar(15)	YES		NULL	



2) Create a table name FACULTY with following structure.

	Column	Description	Data Type
#	Name		
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)

OUTPUT:

```
mysql> create table FACULTY(
  -> FacNo varchar(4),
  -> FacName varchar(15),
  -> Gender char(1),
  -> DOB date,
  -> DOJ date,
  -> MobileNo int(10));
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

```
mysql> describe FACULTY;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| FacNo      | varchar(4)    | YES  |     | NULL    |       |
| FacName    | varchar(15)   | YES  |     | NULL    |       |
| Gender     | char(1)       | YES  |     | NULL    |       |
| DOB        | date          | YES  |     | NULL    |       |
| DOJ        | date          | YES  |     | NULL    |       |
| MobileNo   | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```



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)

OUTPUT:

```
mysql> create table DEPARTMENT(
    -> DeptNo varchar(4),
    -> DeptName varchar(15),
    -> DeptHead varchar(4));
Query OK, 0 rows affected (0.01 sec)

mysql> describe DEPARTMENT
    -> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| DeptNo     | varchar(4)    | YES  |     | NULL    |       |
| DeptName   | varchar(15)   | YES  |     | NULL    |       |
| DeptHead   | varchar(4)    | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```



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)

```
mysql> create table COURSE(
-> CourseNo varchar(3),
-> CourseDesc varchar(14),
-> CourseType char(1),
-> SemNo char(1),
-> HallNo varchar(4),
-> FacNo varchar(4));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> describe COURSE;
```

Field	Type	Null	Key	Default	Extra
CourseNo	varchar(3)	YES		NULL	
CourseDesc	varchar(14)	YES		NULL	
CourseType	char(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)
```



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

```
mysql> alter table FACULTY
-> add column DeptNo varchar(4);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe FACULTY
-> ;
```

Field	Type	Null	Key	Default	Extra
FacNo	varchar(4)	YES		NULL	
FacName	varchar(15)	YES		NULL	
Gender	char(1)	YES		NULL	
DOB	date	YES		NULL	
DOJ	date	YES		NULL	
MobileNo	int	YES		NULL	
DeptNo	varchar(4)	YES		NULL	

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

