

## Lab 5 :

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### 1. Create Department table

- a. Department\_ID – Primary Key - Number
- b. Department\_Name - Varchar
- c. Department\_Head – Varchar
- d. Department\_Description – Varchar

```
mysql> create table Department(D_id int primary key,D_Name varchar(50),D_head  
varchar(60),D_description varchar(60));
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> desc department;  
+-----+-----+-----+-----+-----+-----+  
| Field          | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| D_id           | int(11)       | NO   | PRI | NULL    |       |  
| D_Name         | varchar(50)   | YES  |     | NULL    |       |  
| D_head         | varchar(60)   | YES  |     | NULL    |       |  
| D_description  | varchar(60)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
4 rows in set (0.05 sec)
```

### 2. Create Employee table

- a. Employee\_Id- Primarykey- Number
- b. Employee\_Name- Varchar
- c. Employee\_Address- Varchar
- d. Employee\_Salary- Decimal Number
- e. Employee\_Contact\_No- Number
- f. Department\_Id- Number (Foreign Key)

```
mysql> Create table Employee(E_id INT PRIMARY KEY,E_Name
VARCHAR(50),E_Address VARCHAR(60),E_sal
DECIMAL(5,2),E_ContactNumber INT , D_id INT,Foreign key (D_
id) REFERENCES department(D_id));
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> DESC Employee;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| E_id           | int(11)       | NO   | PRI | NULL    |       |
| E_Name         | varchar(50)   | YES  |     | NULL    |       |
| E_Address      | varchar(60)   | YES  |     | NULL    |       |
| E_sal          | decimal(5,2)  | YES  |     | NULL    |       |
| E_ContactNumber | int(11)       | YES  |     | NULL    |       |
| D_id           | int(11)       | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.04 sec)
```

3. Create a constraint on salary to ensure salary between 1000 and 1000000.

```
mysql> Alter table employee
```

```
-> ADD CONSTRAINT chk_salary_range
```

```
-> CHECK(E_sal BETWEEN 1000 AND 1000000);
```

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0