SQL LAB

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Problem # 1 Creating Tables : Create following tables using My SQL command line Client and DDL's.

 i.Create Department table

a.   Department_ID – Primary Key - Number

b.   Department_Name - Varchar

c.   Department_Head – Varchar

d.   Department_Description – Varchar

QUERY:

```
mysql> create table department
    -> (Department_ID int primary key,
    -> Department_Name varchar(20),
    -> Department_Head varchar(20),
    -> Department_Description varchar(50)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc department;
+-----------------------+-------------+------+-----+---------+-------+
| Field                 | Type        | Null | Key | Default | Extra |
+-----------------------+-------------+------+-----+---------+-------+
| Department_ID         | int(11)     | NO   | PRI | NULL    |       |
| Department_Name       | varchar(20) | YES  |     | NULL    |       |
| Department_Head       | varchar(20) | YES  |     | NULL    |       |
| Department_Description | varchar(50) | YES  |     | NULL    |       |
+-----------------------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

ii.   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)

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

QUERY:

```
mysql> CREATE TABLE Employee (
    ->     Employee_Id int PRIMARY KEY,
    ->     Employee_Name VARCHAR(50),
    ->     Employee_Address VARCHAR(50),
    ->     Employee_Salary DECIMAL(10, 2) CHECK (Employee_Salary BETWEEN 1000 AND 1000000),
    ->     Employee_Contact_No int,
    ->     Department_Id int,
    ->         FOREIGN KEY (Department_Id)
    ->         REFERENCES Department(Department_Id)
    -> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc employee;
+--------------------+---------------+------+-----+---------+-------+
| Field              | Type          | Null | Key | Default | Extra |
+--------------------+---------------+------+-----+---------+-------+
| Employee_Id        | int(11)       | NO   | PRI | NULL    |       |
| Employee_Name      | varchar(50)   | YES  |     | NULL    |       |
| Employee_Address   | varchar(50)   | YES  |     | NULL    |       |
| Employee_Salary    | decimal(10,2) | YES  |     | NULL    |       |
| Employee_Contact_No| int(11)       | YES  |     | NULL    |       |
| Department_Id      | int(11)       | YES  | MUL | NULL    |       |
+--------------------+---------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```