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### Lab1\_ANP\_C7270\_JDBC\_Connection\_on\_MYSQL

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 (0.09 sec)
```

OutPut:

```
mysql> desc Department;
+-----+-----+-----+-----+-----+-----+
| Field                | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Department_ID        | int           | 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 Employees_information
-> (Employee_Id int primary key,
-> Employee_Name varchar(30),
-> Employee_Address varchar(40),
-> 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 (0.05 sec)
```

Output:

```
mysql> desc Employees_information;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Employee_Id    | int           | NO   | PRI | NULL    |       |
| Employee_Name  | varchar(30)   | YES  |     | NULL    |       |
| Employee_Address | varchar(40)   | YES  |     | NULL    |       |
| Employee_Salary | decimal(10,2) | YES  |     | NULL    |       |
| Employee_Contact_No | int         | YES  |     | NULL    |       |
| Department_Id  | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```