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TOPIC:JDBC CONNECTION

1. Duplicate Employee data should not be stored in the system.
2. Create a constraint on salary to ensure salary between 1000 and 1000000.
 - i. 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)

SYNTAX:

```
mysql> CREATE TABLE Employee (  
-> Employee_Id int PRIMARY KEY,  
-> Employee_Name VARCHAR(100),  
-> Employee_Address VARCHAR(100),  
-> Employee_Salary decimal(10, 2) CHECK (Employee_Salary BETWEEN 1000 AND 1000000),  
-> Employee_Contact_No bigint UNIQUE,  
-> Department_Id int,  
-> CONSTRAINT unique_name_address UNIQUE (Employee_Name, Employee_Address),  
-> CONSTRAINT fk_Department FOREIGN KEY (Department_Id) REFERENCES Department(Department_Id)  
-> );  
Query OK, 0 rows affected (0.50 sec)
```

TABLE:

```
mysql> desc Employee;
```

Field	Type	Null	Key	Default	Extra
Employee_Id	int(11)	NO	PRI	NULL	
Employee_Name	varchar(100)	YES	MUL	NULL	
Employee_Address	varchar(100)	YES		NULL	
Employee_Salary	decimal(10,2)	YES		NULL	
Employee_Contact_No	bigint(20)	YES	UNI	NULL	
Department_Id	int(11)	YES	MUL	NULL	

```
6 rows in set (0.16 sec)
```

2. Duplicate department data should not be stored in the system.

i. Create Department table

- a. Department_ID – Primary Key - Number**
- b. Department_Name - Varchar**
- c. Department_Head – Varchar**
- d. Department_Description – Varchar**

SYNTAX:

```
mysql> CREATE TABLE Department (  
-> Department_ID INT PRIMARY KEY,  
-> Department_Name VARCHAR(100) NOT NULL,  
-> Department_Head VARCHAR(100) ,  
-> Department_Description VARCHAR(100),  
-> CONSTRAINT unique_department_name UNIQUE (Department_Name)  
-> );  
Query OK, 0 rows affected (0.00 sec)
```

Table:

```
MySQL 5.5 Command Line Client
6 rows in set (0.16 sec)

mysql> desc Department;
+-----+-----+-----+-----+-----+-----+
| Field                | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Department_id        | int(11)       | NO   | PRI | NULL    |       |
| Department_name       | varchar(100)  | YES  | UNI | NULL    |       |
| Department_head       | varchar(100)  | YES  | UNI | NULL    |       |
| Department_Description | varchar(100)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.08 sec)

mysql>
```