

DBMS ASSIGNMENT

NAME - Akash Kumar Sinha

ROLL NO - BTECH/10513/20

BRANCH - IT

Q 1) Create a table of an entity named Employee.

- Employee ID should be the primary key.
- Also create an artificial key.
- Name should have a domain constraint
- Create a few other columns too
- Must have two columns Salary and Satisfactory

a)

```
mysql> create database assign;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| akash    |
| assign   |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
6 rows in set (0.00 sec)
```

b)

```
mysql> use assign;
Database changed
```

c)

```
mysql> create table Employee(Employee_id int primary key,Name varchar(20) not null,Phone_Number varchar (15) NOT NULL,salary int,satisfactory int,Designation varchar(20));
Query OK, 0 rows affected (0.04 sec)
```

d)

```
mysql> alter table Employee add S_No int default 0 not null;  
Query OK, 0 rows affected (0.02 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

e)

```
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(1,1,'ram','884567390',200000,17,'acco');  
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(2,123,'srinam','764567390',700000,32,'tech');  
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(3,749,'jairam','89567390',600002,12,'prod');  
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(4,493,'hariiram','98567390',500002,42,'manag.');
```

```
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(5,367,'radheram','84567390',700002,32,'writer.');
```

```
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(6,367,'krishna','76387878',700002,32,'edit.');
```

```
ERROR 1062 (23000): Duplicate entry '367' for key 'employee.PRIMARY'  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(6,372,'krishna','76387878',700002,32,'edit.');
```

```
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(7,673,'ganesh','7387878',74502,46,'content.');
```

```
Query OK, 1 row affected (0.01 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(8,673,'ganesh','90859878',83502,31,'hr.');
```

```
ERROR 1062 (23000): Duplicate entry '673' for key 'employee.PRIMARY'  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(8,453,'ganesh','90859878',83502,31,'hr.');
```

```
Query OK, 1 row affected (0.01 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(8,853,'ganesh','90859878',8102,31,'manager.');
```

```
Query OK, 1 row affected (0.02 sec)  
  
mysql> delete from employee where Employee_id =853;  
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(9,853,'james','90859878',8102,31,'assis.');
```

```
Query OK, 1 row affected (0.02 sec)  
  
mysql> insert into Employee(S_No,Employee_id,Name,Phone_Number,salary,satisfactory,Designation) values(10,253,'deepak','70859878',802,45,'hod.');
```

```
Query OK, 1 row affected (0.02 sec)
```

2. If any employee has Satisfactory==N set their salary to a minimum number, Let say X.

```
mysql> update Employee set salary = 60000 where satisfactory = 32;  
Query OK, 4 rows affected (0.02 sec)  
Rows matched: 4 Changed: 4 Warnings: 0
```

```
mysql> select * from Employee;
```

Employee_id	Name	Phone_Number	salary	satisfactory	Designation	S_No
1002	ram	884567390	200000	17	acco	1
1203	sriram	764567390	700000	32	tech	2
1304	jairam	895567390	600002	12	prod	3
2000	hariiram	985673390	500002	42	manag.	4
2004	radheram	845673690	700002	32	writer.	5
3004	krishna	761387878	700002	32	edit.	6
4004	krishna	761387878	70042	32	co-dit.	7
5005	ganesh	940859878	8102	31	manager.	8
7005	mahesh	940359878	90002	31	assist.	9
8253	deepak	70859878	13802	45	hod.	10

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

3).Delete all the employees who have salary X

```
mysql> delete from Employee where salary = 700002;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from Employee;
```

Employee_id	Name	Phone_Number	salary	satisfactory	Designation	S_No
1002	ram	884567390	200000	17	acco	1
1203	sriram	764567390	60000	32	tech	2
1304	jairam	895567390	600002	12	prod	3
2000	hariiram	985673390	500002	42	manag.	4
2004	radheram	845673690	60000	32	writer.	5
3004	krishna	761387878	60000	32	edit.	6
4004	krishna	761387878	60000	32	co-dit.	7
5005	ganesh	940859878	8102	31	manager.	8
8253	deepak	70859878	13802	45	hod.	10

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

4) Truncate all the values

5) Drop the table

```
mysql> truncate table Employee;
Query OK, 0 rows affected (0.04 sec)

mysql> drop table Employee;
Query OK, 0 rows affected (0.04 sec)
```