

Assignment -1

1.Create a table name employee

```
mysql> create table employee(SNo int,Name text,Designation text,Branch text);
Query OK, 0 rows affected (0.07 sec)

mysql> insert into employee values(1,"Ram","Manager","Chennai"),(2,"Santosh","Supervisor","Madurai"),(3,"Hari","Assistant","Trichy");
Query OK, 3 rows affected (0.05 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from employee;
+----+-----+-----+-----+
| SNo | Name  | Designation | Branch |
+----+-----+-----+-----+
| 1   | Ram   | Manager    | Chennai |
| 2   | Santosh | Supervisor  | Madurai |
| 3   | Hari  | Assistant   | Trichy  |
+----+-----+-----+-----+
3 rows in set (0.00 sec)
```

1.1 Alter table by adding a column salary

```
mysql> alter table employee add Salary int(10);
Query OK, 0 rows affected, 1 warning (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

1.2 Alter the table by modifying the column "Name"

```
mysql> update employee set Name="Shyam" where Name="Ram";
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

1.3 Describe the table employee

```
mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| SNo        | int  | YES  |     | NULL    |       |
| Name       | text | YES  |     | NULL    |       |
| Designation | text | YES  |     | NULL    |       |
| Branch     | text | YES  |     | NULL    |       |
| Salary     | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)
```

1.4 Copy the table employee as emp

```
mysql> create table emp as select * from employee;  
Query OK, 3 rows affected (0.03 sec)  
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select * from emp;  
+-----+-----+-----+-----+-----+  
| SNo  | Name    | Designation | Branch  | Salary |  
+-----+-----+-----+-----+-----+  
| 1    | Shyam   | Manager     | Chennai | NULL   |  
| 2    | Santosh | Supervisor  | Madurai | NULL   |  
| 3    | Hari    | Assistant   | Trichy  | NULL   |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

1.5 Truncate the table

```
mysql> truncate table employee;  
Query OK, 0 rows affected (0.09 sec)
```

1.6 Delete the 2nd row of the table

```
mysql> delete from emp where Name="Santosh";  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> select * from emp;  
+-----+-----+-----+-----+-----+  
| SNo  | Name    | Designation | Branch  | Salary |  
+-----+-----+-----+-----+-----+  
| 1    | Shyam   | Manager     | Chennai | NULL   |  
| 3    | Hari    | Assistant   | Trichy  | NULL   |  
+-----+-----+-----+-----+-----+  
2 rows in set (0.00 sec)
```

1.7 Drop the table

```
mysql> drop table employee;  
Query OK, 0 rows affected (0.06 sec)
```

2. Create the table name bank

```
mysql> create table bank(SNo int,Cust_Name text,Acc_No bigint,Balance bigint,Cus_Branch text);  
Query OK, 0 rows affected (0.16 sec)  
  
mysql> insert into bank values(1,"Ram","Manager","Chennai"),(2,"Santosh","Supervisor","Madurai");  
insert into bank values(1,"Ramesh",  
12378,100000,"Adyar"),(2,"Sam",12367,152500,"Mylapore"),(3,"Harish",12345,250000,"Anna Salai");  
Query OK, 3 rows affected (0.04 sec)  
Records: 3 Duplicates: 0 Warnings: 0
```

2.1 Simple select

```
mysql> select * from bank;  
+-----+-----+-----+-----+-----+  
| SNo  | Cust_Name | Acc_No | Balance | Cus_Branch |  
+-----+-----+-----+-----+-----+  
| 1    | Ramesh   | 12378  | 100000  | Adyar      |  
| 2    | Sam      | 12367  | 152500  | Mylapore   |  
| 3    | Harish   | 12345  | 250000  | Anna Salai |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

2.2 Select with where clause

```
mysql> select * from bank where Cust_Name="Ramesh";  
+-----+-----+-----+-----+-----+  
| SNo  | Cust_Name | Acc_No | Balance | Cus_Branch |  
+-----+-----+-----+-----+-----+  
| 1    | Ramesh   | 12378  | 100000  | Adyar      |  
+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

2.3 Select with comparison operator>

```
mysql> select * from bank where Balance>100000;
+-----+-----+-----+-----+-----+
| SNo  | Cust_Name | Acc_No | Balance | Cus_Branch |
+-----+-----+-----+-----+-----+
| 2    | Sam      | 12367  | 152500  | Mylapore   |
| 3    | Harish   | 12345  | 250000  | Anna Salai |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

2.3 select with between in the field balance

```
mysql> select * from bank where Balance Between 100000 and 150000;
+-----+-----+-----+-----+-----+
| SNo  | Cust_Name | Acc_No | Balance | Cus_Branch |
+-----+-----+-----+-----+-----+
| 1    | Ramesh   | 12378  | 100000  | Adyar      |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

2.4 Update the cus_Branch in the second row as Poonamalle

```
mysql> update bank set Cust_Name="Poonamalle" where SNo=2;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from bank;
+-----+-----+-----+-----+-----+
| SNo  | Cust_Name | Acc_No | Balance | Cus_Branch |
+-----+-----+-----+-----+-----+
| 1    | Ramesh   | 12378  | 100000  | Adyar      |
| 2    | Poonamalle | 12367  | 152500  | Mylapore   |
| 3    | Harish   | 12345  | 250000  | Anna Salai |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3.Create a table book

```
mysql> create table book (SNo int, B_Name text, Author text, Price int, Publisher text);
Query OK, 0 rows affected (0.07 sec)

mysql> insert into book values(1,"DBMS", "Seema Kedhar",250,"Charulatha"),(2,"TOC", "John Martin",40,"Tata McGraw Hill"),(3,"C", "Bala
gurusamy",300,"Technical");
Query OK, 3 rows affected (0.04 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from book;
```

SNo	B_Name	Author	Price	Publisher
1	DBMS	Seema Kedhar	250	Charulatha
2	TOC	John Martin	40	Tata McGraw Hill
3	C	Balagurusamy	300	Technical

```
3 rows in set (0.06 sec)
```

4.Employee Table

```
mysql> create table Employee (Empid int, EmpName text, Department Varchar(20), ContactNo bigint, EmailId Varchar(100), EmpHeadId int);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into Employee values(101,"Isha", "E-101",1234567890,"isha@gmail.com",105),(102,"Priya", "E-104",1234567890,"priya@yahoo
.com",103),(103,"Nehaa", "E-101",1234567890,"neha@gmail.com",101),(104,"Rahul", "E-102",1234567890,"rahul@yahoo.com",105),(105,"Abhis
hek", "E-101",1234567890,"abhishek@gmail.com",102);
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from Employee;
```

Empid	EmpName	Department	ContactNo	EmailId	EmpHeadId
101	Isha	E-101	1234567890	isha@gmail.com	105
102	Priya	E-104	1234567890	priya@yahoo.com	103
103	Nehaa	E-101	1234567890	neha@gmail.com	101
104	Rahul	E-102	1234567890	rahul@yahoo.com	105
105	Abhishek	E-101	1234567890	abhishek@gmail.com	102

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

5.EmpDept

```
mysql> create table EmpDept (DeptId varchar(10), DeptName text, Dept_off text, DeptHead int);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into EmpDept values("E-101", "HR", "Monday",105),("E-102", "Development", "Tuesday",101),("E-103", "Hous Keeping", "Saturda
y",103),("E-104", "Sales", "Sunday",104),("E-105", "Purchase", "Tuesday",104);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from EmpDept;
```

DeptId	DeptName	Dept_off	DeptHead
E-101	HR	Monday	105
E-102	Development	Tuesday	101
E-103	Hous Keeping	Saturday	103
E-104	Sales	Sunday	104
E-105	Purchase	Tuesday	104

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

6.EmpSalary

```
mysql> create table EmpSalary (EmpId int,Salary bigint,IsPermanent enum("Yes","No"));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into EmpSalary values(101,2000,"Yes"),(101,2000,"Yes"),^C
mysql> insert into EmpSalary values(101,2000,"Yes"),(102,10000,"Yes"),(103,5000,"No"),(104,1900,"Yes"),(105,2300,"Yes");
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from EmpSalary;
+-----+-----+-----+
| EmpId | Salary | IsPermanent |
+-----+-----+-----+
| 101   | 2000   | Yes         |
| 102   | 10000  | Yes         |
| 103   | 5000   | No          |
| 104   | 1900   | Yes         |
| 105   | 2300   | Yes         |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

7.Project

```
mysql> create table Project (ProjectId varchar(9),Duration int);
Query OK, 0 rows affected (0.04 sec)

mysql> insert into Project values("p-1",23),("p-2",15),("p-3",45),("p-4",2),("p-5",30);
"> ^C
mysql> insert into Project values("p-1",23),("p-2",15),("p-3",45),("p-4",2),("p-5",30);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from Project;
+-----+-----+
| ProjectId | Duration |
+-----+-----+
| p-1       | 23       |
| p-2       | 15       |
| p-3       | 45       |
| p-4       | 2        |
| p-5       | 30       |
+-----+-----+
5 rows in set (0.00 sec)
```

8.Select the detail of the employee whose name start with P.

```
mysql> SELECT * FROM Employee WHERE EmpName LIKE 'P%';
+-----+-----+-----+-----+-----+-----+
| Empid | EmpName | Department | ContactNo | EmailId | EmpHeadId |
+-----+-----+-----+-----+-----+-----+
| 102   | Priya   | E-104      | 1234567890 | priya@yahoo.com | 103 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

9.How many permanent candidate take salary more than 5000.

```
mysql> select * from EmpSalary where Salary>5000 and IsPermanent="Yes";
+-----+-----+-----+
| EmpId | Salary | IsPermanent |
+-----+-----+-----+
| 102 | 10000 | Yes |
+-----+-----+-----+
1 row in set (0.00 sec)
```

10. Select the detail of employee whose emailId is in gmail.

```
mysql> select * from Employee Where EmailId LIKE '%gmail%';
+-----+-----+-----+-----+-----+-----+
| Empid | EmpName | Department | ContactNo | EmailId | EmpHeadId |
+-----+-----+-----+-----+-----+-----+
| 101 | Isha | E-101 | 1234567890 | isha@gmail.com | 105 |
| 103 | Nehaa | E-101 | 1234567890 | neha@gmail.com | 101 |
| 105 | Abhishek | E-101 | 1234567890 | abhishek@gmail.com | 102 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

11. Select the details of the employee who work either for department E-104 or E-102.

```
mysql> select * from Employee where Department="E-104" or Department="E-102";
+-----+-----+-----+-----+-----+-----+
| Empid | EmpName | Department | ContactNo | EmailId | EmpHeadId |
+-----+-----+-----+-----+-----+-----+
| 102 | Priya | E-104 | 1234567890 | priya@yahoo.com | 103 |
| 104 | Rahul | E-102 | 1234567890 | rahul@yahoo.com | 105 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

12. What is the department name for DeptID E102?

```
mysql> select DeptName from EmpDept where DeptId="E-102";
+-----+
| DeptName |
+-----+
| Development |
+-----+
1 row in set (0.00 sec)
```