**Experiment No. 02**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** To write queries for create table, alter table, drop table& column and datatype.

**Name:** Rahulkumar Varma

**Class:** TE CSE **Batch:** T1 **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Enter password: \*\*\*\*

mysql> create database company;

Query OK, 1 row affected (0.17 sec)

mysql> use company;

Database changed

mysql> create table employee(emp\_id int,name char,department char,salary int,age int,city char);

Query OK, 0 rows affected (0.66 sec)

mysql> desc employee;

+------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+---------+------+-----+---------+-------+

| emp\_id | int | YES | | NULL | |

| name | char(1) | YES | | NULL | |

| department | char(1) | YES | | NULL | |

| salary | int | YES | | NULL | |

| age | int | YES | | NULL | |

| city | char(1) | YES | | NULL | |

+------------+---------+------+-----+---------+-------+

6 rows in set (0.13 sec)

mysql> alter table employee modify name char(20) not null;

Query OK, 0 rows affected (1.19 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee modify department char(20) not null;

Query OK, 0 rows affected (1.42 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee modify city char(20) not null;

Query OK, 0 rows affected (1.50 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee add primary key(emp\_id);

Query OK, 0 rows affected (0.99 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into employee values(1,"ABC","manager",30000,21,"karad");

Query OK, 1 row affected (0.15 sec)

mysql> insert into employee values(2,"PQR","ceo",50000,20,"satara");

Query OK, 1 row affected (0.10 sec)

mysql> insert into employee values(3,"XYZ","worker",23500,22,"pune");

Query OK, 1 row affected (0.06 sec)

mysql> select \* from employee;

+--------+---------+------------+--------+------+--------+

| emp\_id | name | department | salary | age | city |

+--------+---------+------------+--------+------+--------+

| 1 | ABC | manager | 30000 | 21 | karad |

| 2 | PQR | ceo | 50000 | 20 | satara |

| 3 | XYZ | worker | 23500 | 22 | pune |

+--------+---------+------------+--------+------+--------+

3 rows in set (0.03 sec)

mysql> insert into employee values(4,"sham","encharge",290000,42,"mumbai")

-> ;

Query OK, 1 row affected (0.04 sec)

mysql> insert into employee values(5,"ram","assistent manager ",29000,32,"kolhapur");

Query OK, 1 row affected (0.07 sec)

mysql> select \* from employee;

+--------+---------+-------------------+--------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+---------+-------------------+--------+------+----------+

| 1 | ABC | manager | 30000 | 21 | karad |

| 2 | PQR | ceo | 50000 | 20 | satara |

| 3 | XYZ | worker | 23500 | 22 | pune |

| 4 | sham | encharge | 290000 | 42 | mumbai |

| 5 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+---------+-------------------+--------+------+----------+

5 rows in set (0.00 sec)

mysql> select \* from employee where emp\_id in(select emp\_id from employee where salary<30000);

+--------+-------+-------------------+--------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+-------+-------------------+--------+------+----------+

| 3 | XYZ | worker | 23500 | 22 | pune |

| 5 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+-------+-------------------+--------+------+----------+

2 rows in set (0.08 sec)

**Experiment No. 03**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** Grouping data, Aggregate function, oracle function.

**Name:** Rahulkumar Varma

**Class:** TE CSE **Batch:** T1 **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table name: pl\_sql

ID NAME MOBILE\_NO

3030 Prasanna nikam 987654321

3020 Rahul varma 987654321

3011 Shivlal yadav 987654321

* Mysql group by clause using aggregate Count function.

Select NAME, count(\*) from pl\_sql group by NAME;

NAME COUNT(\*)

Prasanna nikam 1

Rahul varma 1

Shivlal yadav 1

* Mysql group by clause using Sum function

Select NAME, Sum(ID) As "Total sum of ID" from pl\_sql group by NAME;

NAME Total sum of ID

Prasanna nikam 6060

Rahul varma 6040

Shivlal yadav 6022

* Mysql group by clause using Avg function

Select NAME, Avg(ID) As "Average of ID" from pl\_sql group by NAME;

NAME Average of ID

Prasanna nikam 3030

Rahu varma 3020

Shivlal yadav 3011

**Experiment No. 04**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** Sub-queries, Set-Operations, Joins.

**Name:** Rahulkumar Varma

**Class:** TE CSE **Batch:** T1 **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Sub-queries:**

mysql> create table employee\_1(emp\_id int,name char,department char,salary int,age int,city char);

Query OK, 0 rows affected (0.64 sec)

mysql> alter table employee\_1 add primary key(emp\_id);

Query OK, 0 rows affected (0.71 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee\_1 modify city char(20) not null;

Query OK, 0 rows affected (1.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee\_1 modify name char(20) not null;

Query OK, 0 rows affected (0.45 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employee\_1 modify department char(20) not null;

Query OK, 0 rows affected (0.41 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into employee\_1 select \* from employee where emp\_id in(select emp\_id from employee where age>20);

Query OK, 4 rows affected (0.05 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select \* from employee\_1;

+--------+-------+-------------------+--------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+-------+-------------------+--------+------+----------+

| 11 | ABC | manager | 30000 | 21 | karad |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 14 | sham | encharge | 290000 | 42 | mumbai |

| 15 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+-------+-------------------+--------+------+----------+

4 rows in set (0.00 sec)

mysql> update employee set salary=salary\*10 where age in(select age from employee\_1 where age>30);

Query OK, 2 rows affected (0.09 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select \* from employee;

+--------+---------+-------------------+---------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+---------+-------------------+---------+------+----------+

| 11 | ABC | manager | 30000 | 21 | karad |

| 12 | PQR | ceo | 50000 | 20 | satara |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 14 | sham | encharge | 2900000 | 42 | mumbai |

| 15 | ram | assistent manager | 290000 | 32 | kolhapur |

+--------+---------+-------------------+---------+------+----------+

5 rows in set (0.00 sec)

mysql> delete from employee\_1 where salary in(select age from employee where age>=32);

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from employee\_1;

+--------+-------+-------------------+--------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+-------+-------------------+--------+------+----------+

| 11 | ABC | manager | 30000 | 21 | karad |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 14 | sham | encharge | 290000 | 42 | mumbai |

| 15 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+-------+-------------------+--------+------+----------+

4 rows in set (0.00 sec)

mysql> delete from employee\_1 where salary in(select salary from employee where salary>=30000);

Query OK, 2 rows affected (0.09 sec)

mysql> select \* from employee\_1;

+--------+-------+-------------------+--------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+-------+-------------------+--------+------+----------+

| 13 | XYZ | worker | 23500 | 22 | pune |

| 15 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+-------+-------------------+--------+------+----------+

2 rows in set (0.00 sec)

**Set-Operations:**

mysql> select \* from employee union select \* from employee\_1;

+--------+---------+-------------------+---------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+---------+-------------------+---------+------+----------+

| 11 | ABC | manager | 30000 | 21 | karad |

| 12 | PQR | ceo | 50000 | 20 | satara |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 14 | sham | encharge | 2900000 | 42 | mumbai |

| 15 | ram | assistent manager | 290000 | 32 | kolhapur |

| 15 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+---------+-------------------+---------+------+----------+

6 rows in set (0.04 sec)

mysql> select \* from employee union all select \* from employee\_1;

+--------+---------+-------------------+---------+------+----------+

| emp\_id | name | department | salary | age | city |

+--------+---------+-------------------+---------+------+----------+

| 11 | ABC | manager | 30000 | 21 | karad |

| 12 | PQR | ceo | 50000 | 20 | satara |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 14 | sham | encharge | 2900000 | 42 | mumbai |

| 15 | ram | assistent manager | 290000 | 32 | kolhapur |

| 13 | XYZ | worker | 23500 | 22 | pune |

| 15 | ram | assistent manager | 29000 | 32 | kolhapur |

+--------+---------+-------------------+---------+------+----------+

7 rows in set (0.00 sec)

**Joins:**

mysql> create database agce;

Query OK, 1 row affected (0.09 sec)

mysql> use agce;

Database changed

mysql> create table orders(orde\_id int,customer\_id int,order\_date date);

Query OK, 0 rows affected (0.63 sec)

mysql> desc orders;

+-------------+------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+------+------+-----+---------+-------+

| orde\_id | int | YES | | NULL | |

| customer\_id | int | YES | | NULL | |

| order\_date | date | YES | | NULL | |

+-------------+------+------+-----+---------+-------+

3 rows in set (0.02 sec)

mysql> insert into orders values(10308,2,"1996-09-18");

Query OK, 1 row affected (0.04 sec)

mysql> insert into orders values(10309,37,"1996-09-19");

Query OK, 1 row affected (0.08 sec)

mysql> insert into orders values(10310,77,"1996-09-20");

Query OK, 1 row affected (0.06 sec)

mysql> select \* from orders;

+---------+-------------+------------+

| orde\_id | customer\_id | order\_date |

+---------+-------------+------------+

| 10308 | 2 | 1996-09-18 |

| 10309 | 37 | 1996-09-19 |

| 10310 | 77 | 1996-09-20 |

+---------+-------------+------------+

3 rows in set (0.00 sec)

mysql> create table customers(customer\_id int,customer\_name char,city char,contact\_name char);

Query OK, 0 rows affected (0.41 sec)

mysql> alter table customers modify customer\_name char(30);

Query OK, 0 rows affected (0.53 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table customers modify city char(20);

Query OK, 0 rows affected (0.58 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table customers modify contact\_name char(20);

Query OK, 0 rows affected (1.25 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into customers values(1,"ABC","satara","abc");

Query OK, 1 row affected (0.06 sec)

mysql> insert into customers values(2,"PQR","karad","pqr");

Query OK, 1 row affected (0.06 sec)

mysql> insert into customers values(3,"XYZ","pune","xyz");

Query OK, 1 row affected (0.05 sec)

mysql> select \* from customers;

+-------------+---------------+--------+--------------+

| customer\_id | customer\_name | city | contact\_name |

+-------------+---------------+--------+--------------+

| 1 | ABC | satara | abc |

| 2 | PQR | karad | pqr |

| 3 | XYZ | pune | xyz |

+-------------+---------------+--------+--------------+

3 rows in set (0.00 sec)

mysql> select orders.orde\_id,customers.customer\_name,orders.order\_date from orders **inner join** customers on

-> orders.customer\_id=customers.customer\_id;

+---------+---------------+------------+

| orde\_id | customer\_name | order\_date |

+---------+---------------+------------+

| 10308 | PQR | 1996-09-18 |

+---------+---------------+------------+

1 row in set (0.02 sec)

mysql> select orders.orde\_id,customers.customer\_id from customers **left join** orders on

-> customers.customer\_id=orders.orde\_id

-> order by customers.customer\_name;

+---------+-------------+

| orde\_id | customer\_id |

+---------+-------------+

| NULL | 2 |

| NULL | 3 |

| NULL | 1 |

+---------+-------------+

3 rows in set (0.04 sec)

mysql> select orders.orde\_id,customers.customer\_id from customers **left join** orders on customers.customer\_id=orders.customer\_id order by customers.customer\_name;

+---------+-------------+

| orde\_id | customer\_id |

+---------+-------------+

| 10308 | 2 |

| NULL | 3 |

| NULL | 1 |

+---------+-------------+

3 rows in set (0.00 sec)

select orders.orde\_id,customers.customer\_id from customers **right join** orders on customers.customer\_id=orders.customer\_id order by customers.customer\_name;

+---------+-------------+

| orde\_id | customer\_id |

+---------+-------------+

| 10309 | NULL |

| 10310 | NULL |

| 10308 | 2 |

+---------+-------------+

3 rows in set (0.00 sec)

**Experiment No. 05**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** To Create Database and write PL/SQL queries to retrieve information from database.

**Name:** Rahulkumar Varma

**Class:** TE-CSE **Batch:** T1  **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Create table pl\_sql(ID number(4), NAME varchar(20), Mobile\_no varchar(10));

Statement processed.

Insert into pl\_sql values(3022 , 'Prasanna nikam', '9876543210');

Insert into pl\_sql values(3022 , ‘Shivlal Yadav’, '9865720455');

Insert into pl\_sql values(3022 , ’Rahul varma’, ' 8329806079');

Statement processed.

Select \* from pl\_sql;

Statement processed.

ID NAME MOBILE\_NO

3022 Prasanna nikam 9876543210

3021 Shivlal Yadav 9865720455

3020 Rahul varma 8329806079

Program:

declare

count\_id number;

count\_All number;

begin

select count(distinct ID) INTO count\_id FROM pl\_sql;

select count(\*) into count\_All from pl\_sql;

dbms\_output.put\_line(count\_id);

dbms\_output.put\_line(count\_All);

end;

Output:

4

6

Statement processed.

**Experiment No. 8**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** To implementation of Database System for application such as hotel management office automation , hospital management.

**Name:** Rahulkumar Varma

**Class:** TE-CSE **Batch:** T1  **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Program:**

import mysql.connector  
  
class db\_operation:  
 def \_\_init\_\_(self):  
 self.con = mysql.connector.connect(  
 host='localhost',  
 database='data',  
 user='root',  
 password='')  
  
 print("connection sucssesfull\n")  
 query = "create table if not exists user(Id int(4),Name varchar(30),Mobile\_No int(10))"  
 cur = self.con.cursor()  
 result = cur.execute(query)  
 print("Table Created Sucssesfully\n")  
  
 def data\_insert(self):  
 id = int(input("Enter Id: "))  
 name = input("Enter Name: ")  
 mobile\_no = int(input("Enter Mobile No: "))  
 query = f"insert into user(Id,Name,Mobile\_no) values({id},'{name}', '{mobile\_no}')"  
 cur = self.con.cursor()  
 cur.execute(query)  
 self.con.commit()  
 print("\n Data inserted Sucssesfully\n")  
  
 def data\_retrive(self):  
 query = "select \* from user"  
 cur = self.con.cursor()  
 cur.execute(query)  
 result = cur.fetchall()  
 for row in result:  
 print(f"Id : {row[0]}")  
 print(f"Name : {row[1]}")  
 print(f"Mobile No : {row[2]}\n")  
  
 print("\nAll Data retrived sucssesfully\n")  
  
 def data\_retrive\_by\_Id(self):  
 Id = int(input("Enter Id : "))  
 query = f"select \* from user where id ={Id}"  
 cur = self.con.cursor()  
 cur.execute(query)  
 result = cur.fetchall()  
 for row in result:  
 print(f"\nId : {row[0]}")  
 print(f"Name : {row[1]}")  
 print(f"Mobile No : {row[2]}\n")  
  
 print("\n Data retrived sucssesfully\n")  
  
 def data\_delet(self):  
 Id = int(input("Enter Id : "))  
 query = f"delete from user where id ={Id}"  
 cur = self.con.cursor()  
 cur.execute(query)  
 self.con.commit()  
 print("\n Data sucssesfully deleted\n")  
  
 def data\_update(self):  
 Id = int(input("Enter Id : "))  
 newName = input("Enter New Name: ")  
 newMObile\_no = input("Enter New Mobile No: ")  
 query = f"update user set Name='{newName}', Mobile\_NO='{newMObile\_no}' where id ={Id}"  
 cur = self.con.cursor()  
 cur.execute(query)  
 self.con.commit()  
 print("\n Data sucssesfully Updated\n")

def main():  
 db = db\_operation()  
 while True:  
 print("Enter 1 to insert new data")  
 print("Enter 2 to display all data")  
 print("Enter 3 to display one user data")  
 print("Enter 4 to delet data")  
 print("Enter 5 to update data")  
 print("Enter 6 to Exit\n")  
  
 try:  
 select = int(input("Enter number: "))  
 if select==1:  
 db.data\_insert()  
 elif select==2:  
 db.data\_retrive()  
 elif select==3:  
 db.data\_retrive\_by\_Id()  
 elif select==4:  
 db.data\_delet()  
 elif select==5:  
 db.data\_update()  
 elif select==6:  
 break  
 else:  
 print("Invalid Input! Try again...\n\n")  
  
 except Exception as e:  
 print(e)  
  
  
 if \_\_name\_\_ == "\_\_main\_\_":  
 main()

**Output:**

connection sucssesfull

Table Created Sucssesfully

Enter 1 to insert new data

Enter 2 to display all data

Enter 3 to display one user data

Enter 4 to delet data

Enter 5 to update data

Enter 6 to Exit

Enter number: 1

Enter Id: 1001

Enter Name: Rahulkumar

Enter Mobile No: 7378963258

Data inserted Sucssesfully

Enter 1 to insert new data

Enter 2 to display all data

Enter 3 to display one user data

Enter 4 to delet data

Enter 5 to update data

Enter 6 to Exit

Enter number: 2

Id : 3060

Name : Rahul

Mobile No : 8329806079

Id : 1001

Name : Rahulkumar

Mobile No : 7378963258

All Data retrived sucssesfully

Enter 1 to insert new data

Enter 2 to display all data

Enter 3 to display one user data

Enter 4 to delet data

Enter 5 to update data

Enter 6 to Exit

Enter number: 3

Enter Id : 1001

Id : 1001

Name : Rahulkumar

Mobile No : 7378963258

Data retrived sucssesfully

Enter 1 to insert new data

Enter 2 to display all data

Enter 3 to display one user data

Enter 4 to delet data

Enter 5 to update data

Enter 6 to Exit

Enter number: 4

Enter Id : 3060

Data sucssesfully deleted

Enter 1 to insert new data

Enter 2 to display all data

Enter 3 to display one user data

Enter 4 to delet data

Enter 5 to update data

Enter 6 to Exit

**Experiment No. 10**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** Large object – CLOB, NCLOB, BLOB and BFILE**.**

**Name:** Rahulkumar Varma

**Class:** TE-CSE **Batch:** T1  **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**CLOB:**

**mysql>** create database Large\_object;

Query OK, 1 row affected (0.07 sec)

mysql> use Large\_object;

Database changed

mysql> create table Clob\_data( Id int(5), Name varchar(20),File longtext);

Query OK, 0 rows affected, 1 warning (0.47 sec)

mysql> insert into clob\_data values(3020,'Rahlkumar varma', 'Any\_big\_text');

Query OK, 1 row affected (0.16 sec)

mysql> select \* from clob\_data;

+------+-----------------+--------------+

| Id | Name | File |

+------+-----------------+--------------+

| 3020 | Rahlkumar varma | Any\_big\_text |

+------+-----------------+--------------+

1 row in set (0.00 sec)

**BLOB:**

mysql> use Large\_object;

Database changed

mysql> create table blob\_data(Id int(5),Name varchar(20),File blob);

Query OK, 0 rows affected, 1 warning (0.27 sec)

mysql> insert into blob\_data values(3020,'Rahulkumar varma','Documents/img.jpeg');

Query OK, 1 row affected (0.04 sec)

mysql> select \* from blob\_data;

+------+------------------+----------------------------------------+

| Id | Name | File |

+------+------------------+----------------------------------------+

| 3020 | Rahulkumar varma | 'Documents/img.jpeg' |

+------+------------------+----------------------------------------+

1 row in set (0.02 sec**)**

**Experiment No. 06**

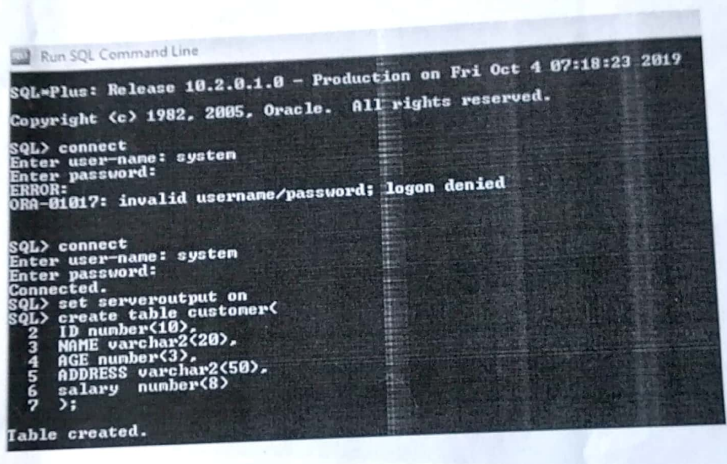
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

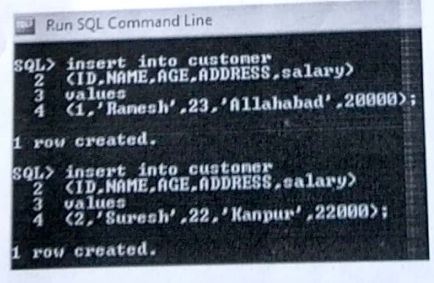
**Title:** To create Trigger and Cursor.

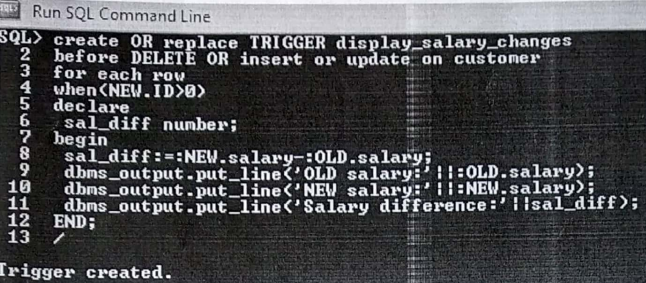
**Name:** Rahulkumar Varma

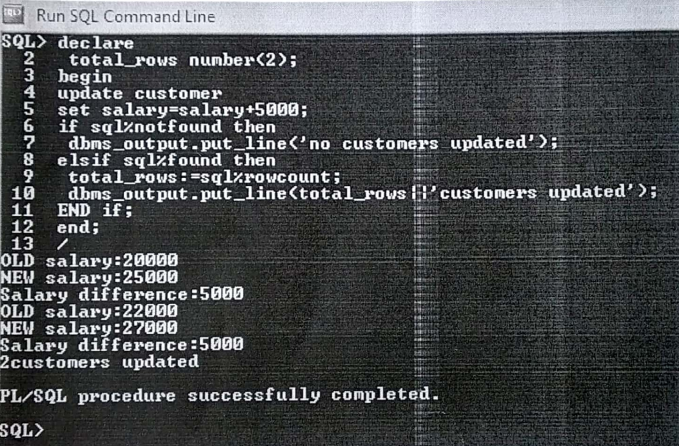
**Class:** TE CSE **Batch:** T1 **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*









**Experiment No. 11**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Title:** To creating web-page interface for database application using servlet.

**Name:** Rahulkumar Varma

**Class:** TE CSE **Batch:** T1 **Roll No:** 3020

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Register.html

<html>

<body>

    <form action="servlet/Register" method="post">

        Name:<input type="text" name="userName" /><br /><br />

        Password:<input type="password" name="userPass" /><br /><br />

        Email Id:<input type="text" name="userEmail" /><br /><br />

        Country:

        <select name="userCountry">

            <option>India</option>

            <option>Pakistan</option>

            <option>other</option>

        </select>

        <br /><br />

        <input type="submit" value="register" />

    </form>

</body>

</html>

Register.java

import java.io.\*;

import java.sql.\*;

import javax.servlet.ServletException;

import javax.servlet.http.\*;

public class Register extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response)

            throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

String p=request.getParameter("userPass");

String e=request.getParameter("userEmail");

String c=request.getParameter("userCountry");

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection(

"jdbc:oracle:thin:@localhost:1521:xe","system","oracle");

PreparedStatement ps=con.prepareStatement(

"insert into registeruser values(?,?,?,?)");

ps.setString(1,n);

ps.setString(2,p);

ps.setString(3,e);

ps.setString(4,c);

int i=ps.executeUpdate();

if(i>0)

out.print("You are successfully registered...");

}catch (Exception e2) {System.out.println(e2);}

out.close();

}

}

Web.xml

<web-app>

<servlet>

<servlet-name>Register</servlet-name>

<servlet-class>Register</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Register</servlet-name>

<url-pattern>/servlet/Register</url-pattern>

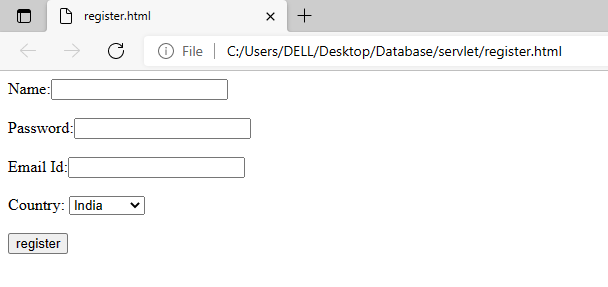
</servlet-mapping>

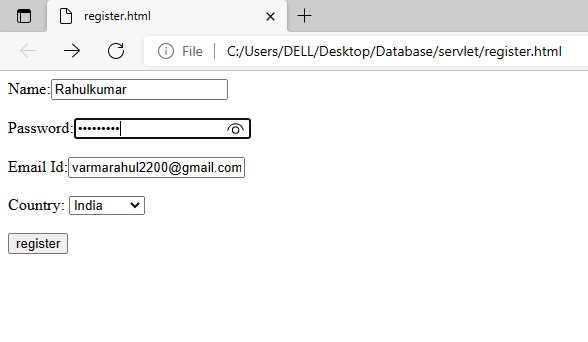
<welcome-file-list>

    <welcome-file>register.html</welcome-file>

</welcome-file-list>

</web-app>





****