Practcial 07 Simple Statement

```
import java.sql.*;
import java.util.Scanner;
public class CRUDSS {
       public static Connection con;
       static int ch:
       static String selectQ = "SELECT * FROM
employee";
       static String eid, ename, esalary;
       public static void main(String[] args) throws
SQLException, ClassNotFoundException {
       Class.forName("com.mysql.cj.jdbc.Driver");
               CRUDSS.con =
DriverManager.getConnection("jdbc:mysql://localhost:3
306/javajdbc", "root", "password");
               Scanner sc = new Scanner(System.in);
               while (true) {
                      System.out.println(
                                     " 1. create
employee \n 2. update employee info \n 3. delete
employee \n 0. Exit \n enter your choice: ");
                      ch = sc.nextInt();
                      switch (ch) {
                              case 1:
                                     createEmp();
                                     break;
                              case 2:
                                      updateEmp();
                                     break;
                              case 3:
                                      deleteEmp();
                                     break:
                              case 0:
                                      System.exit(0);
                              default:
       System.out.println("Invalid choice! Please make a ename + "\t" + esalary);
valid choice. \n\n");
                      }
               }
       }
       private static void createEmp() throws
SQLException, ClassNotFoundException {
               ResultSet rs:
               String insertQ = "INSERT INTO employee
VALUES ('104', 'Rupesh', '90000')";
               // obtain a statement
               Statement st = con.createStatement();
               rs = st.executeQuery(selectQ);
               System.out.println("Employee table
before Insertion");
               System.out.println("EmpId \t Empname \
t EmpSalary");
               while (rs.next()) {
                      eid = rs.getString(1);
```

```
ename = rs.getString(2);
                      esalary = rs.getString(3);
                      System.out.println(eid + "\t" +
ename + "\t" + esalary);
               int exeUpdate =
st.executeUpdate(insertQ);
               if (exeUpdate == 1) {
                      System.out.println("1 row
inserted");
               rs = st.executeQuery(selectQ);
               System.out.println("Employee table after
Insertion");
               System.out.println("EmpId \t Empname \
t EmpSalary");
               while (rs.next()) {
                      eid = rs.getString(1);
                      ename = rs.getString(2);
                      esalary = rs.getString(3);
                      System.out.println(eid + "\t" +
ename + "\t" + esalary);
       }
       private static void updateEmp() throws
SQLException, ClassNotFoundException {
               ResultSet rs;
               String updateQ = "UPDATE employee SET
emp_sal= '160000' WHERE emp_id = '102'";
               // obtain a statement
               Statement st = con.createStatement();
               rs = st.executeQuery(selectQ);
               System.out.println("Employee table
before Updation");
               System.out.println("EmpId \t Empname \
t EmpSalary");
               while (rs.next()) {
                      eid = rs.getString(1);
                      ename = rs.getString(2);
                      esalary = rs.getString(3);
                      System.out.println(eid + "\t" +
               int exeUpdate1 =
st.executeUpdate(updateQ);
               if (exeUpdate1 == 1) {
                      System.out.println("1 row
updated");
               rs = st.executeQuery(selectQ);
               System.out.println("Employee table after
Updation");
               System.out.println("EmpId \t Empname \
t EmpSalary");
               while (rs.next()) {
                      eid = rs.getString(1);
                      ename = rs.getString(2);
                      esalary = rs.getString(3);
                      System.out.println(eid + "\t" +
ename + "\t" + esalary);
```

```
}
                                                                            90000
                                                       103
                                                              Sourabh
                                                       104
                                                              Rupesh
                                                                            90000
       private static void deleteEmp() throws
SQLException, ClassNotFoundException {
                                                       1. create employee
              ResultSet rs;
                                                       2. update employee info
              String deleteQ = "
                                    DELETE FROM
                                                       3. delete employee
employee WHERE emp id = '102'";
                                                       0. Exit
                                                       enter your choice:
              // obtain a statement
              Statement st = con.createStatement();
              rs = st.executeQuery(selectQ);
                                                       Employee table before Updation
              System.out.println("Employee table
                                                       Empld Empname
                                                                             EmpSalary
before deletion");
                                                       101
                                                              Akshay
                                                                             160000
              System.out.println("EmpId \t Empname \ 102
                                                              Tushar
                                                                            90000
                                                                            90000
t EmpSalary");
                                                       103
                                                              Sourabh
              while (rs.next()) {
                                                       104
                                                              Rupesh
                                                                            90000
                     eid = rs.getString(1);
                                                       1 row updated
                     ename = rs.getString(2);
                                                       Employee table after Updation
                     esalary = rs.getString(3);
                     System.out.println(eid + "\t" +
                                                       Empld Empname
                                                                             EmpSalary
ename + "\t" + esalary);
                                                       101
                                                              Akshay
                                                                            160000
                                                       102
                                                              Tushar
                                                                            160000
              int exeUpdate1 =
                                                       103
                                                              Sourabh
                                                                             90000
st.executeUpdate(deleteQ);
                                                       104
                                                                             90000
                                                              Rupesh
              if (exeUpdate1 == 1) {
                     System.out.println("Employee is
                                                       1. create employee
deleted");
                                                       2. update employee info
                                                       3. delete employee
              rs = st.executeQuery(selectQ);
                                                       0. Exit
              System.out.println("Employee table after enter your choice:
deletion");
              System.out.println("EmpId \t Empname \
t EmpSalary");
                                                       Employee table before deletion
              while (rs.next()) {
                                                       Empld Empname
                                                                             EmpSalary
                     eid = rs.getString(1);
                                                       101
                                                              Akshav
                                                                            160000
                     ename = rs.getString(2);
                                                       102
                                                              Tushar
                                                                            160000
                     esalary = rs.getString(3);
                                                       103
                                                              Sourabh
                                                                            90000
                     System.out.println(eid + "\t" +
                                                                            90000
                                                       104
                                                              Rupesh
ename + "\t" + esalary);
                                                       Employee is deleted
                                                       Employee table after deletion
                                                       Empld Empname
       }
                                                                             EmpSalary
}
                                                       101
                                                              Akshay
                                                                            160000
                                                       103
                                                              Sourabh
                                                                            90000
                                                       104
                                                              Rupesh
                                                                            90000
Output
                                                       1. create employee
1. create employee
                                                       2. update employee info
2. update employee info
                                                       3. delete employee
3. delete employee
                                                       0. Exit
                                                       enter your choice:
0. Exit
enter your choice:
Employee table before Insertion
Empld Empname
                      EmpSalary
101
       Akshay
                     160000
                     90000
102
       Tushar
       Sourabh
                     90000
103
1 row inserted
Employee table after Insertion
Empld Empname
                      EmpSalary
101
       Akshav
                     160000
```

102

Tushar

90000

```
PreparedStatement updateTbl;
PreparedStatement
                                                                        String guery = "update student set
import java.sql.*;
                                                         marks=? where roll_no=? ";
import java.util.Scanner;
                                                                        try {
                                                                                updateTbl =
public class PreparedDemo {
                                                         PreparedDemo.con.prepareStatement(query);
       PreparedStatement pstmt;
                                                                                updateTbl.setInt(1, marks);
       public static Connection con;
                                                                                updateTbl.setInt(2, roll);
       void printTable() {
               PreparedStatement printTbl;
               String query = "SELECT * FROM student"; updateTbl.executeUpdate();
                                                                                updateTbl.close();
               try {
                      System.out.println("\n\nPrinting
                                                                        } catch (SQLException e) {
Table : \n");
                                                                                System.out.println(e);
                      printTbl =
PreparedDemo.con.prepareStatement(query);
                                                                 }
                      ResultSet rs =
                                                                 void deleteData(int roll) {
printTbl.executeQuery();
                                                                        PreparedStatement delete;
                      System.out.println("RollNo\
                                                                        String guery = "delete from student
tName\tMarks");
                                                         where roll_no = ?";
                      while (rs.next()) {
                                                                        trv {
                              int roll = rs.getInt(1);
                                                                                delete =
                              String name =
                                                         PreparedDemo.con.prepareStatement(query);
rs.getString(2);
                              int mark = rs.getInt(3);
                                                                                delete.setInt(1, roll);
                              System.out.println(roll +
"\t" + name + "\t" + mark);
                                                                                int i = delete.executeUpdate();
                      System.out.println("\n");
                                                                                delete.close();
                      printTbl.close();
                                                                        } catch (SQLException e) {
               } catch (SQLException e) {
                                                                                System.out.println(e);
                      System.out.println(e);
                                                                        }
               }
                                                                 }
       }
                                                                 public static void main(String args[]) {
       void insertInTable(int roll, String name, int
                                                                        PreparedDemo pd;
marks) {
               PreparedStatement insertTbl;
                                                                        try {
                                                                                Scanner sc = new
               String query = "INSERT INTO student
                                                         Scanner(System.in);
VALUES(?,?,?)";
               try {
                                                                 Class.forName("com.mysql.cj.jdbc.Driver");
                                                                                PreparedDemo.con =
                      insertTbl =
                                                         DriverManager.getConnection("jdbc:mysgl://localhost:3
PreparedDemo.con.prepareStatement(query);
                                                         306/javajdbc", "root", "password");
                                                                                pd = new PreparedDemo();
                      insertTbl.setInt(1, roll);
                      insertTbl.setString(2. name):
                                                                                while (true) {
                      insertTbl.setInt(3, marks);
                                                                                       System.out.println("1.
                                                         Print table\n2. Insert table\n3. Update Data(marks)\n4.
                      int i = insertTbl.executeUpdate();
                                                         Delete Data\n5. Exit\n");
                                                                                       int i = sc.nextInt();
                      insertTbl.close();
                                                                                       int roll no, marks;
              } catch (SQLException e) {
                                                                                       String name;
                      System.out.println(e);
                                                                                       switch (i) {
               }
                                                                                               case 1:
       }
```

pd.printTable();

break:

void updateTable(int roll, int marks) {

```
case 2:
                                                          1. Print table
       System.out.println("Enter roll no");
                                                          2. Insert table
                                              roll no =
                                                          3. Update Data(marks)
                                                          4. Delete Data
sc.nextInt();
                                                          5. Exit
       System.out.println("\nEnter name");
                                              name =
sc.next();
       System.out.println("\nEnter marks");
                                                          Printing Table:
                                              marks =
sc.nextInt();
                                                          RollNo Name Marks
                                                                  Vinav
                                                                                 90
                                                          2
       pd.insertInTable(roll no, name, marks);
                                                          3
                                                                  Vijay
                                                                                 95
                                                          25
                                                                  Akshay
                                                                                 95
       pd.printTable();
                                              break;
                                                          1. Print table
                                      case 3:
                                                          2. Insert table
       System.out.println("Enter roll no");
                                                          3. Update Data(marks)
                                              roll_no =
                                                          4. Delete Data
sc.nextInt();
                                                          5. Exit
       System.out.println("\nEnter marks");
                                                          2
                                              marks =
sc.nextInt();
                                                          Enter roll no
                                                          30
       pd.updateTable(roll no, marks);
                                                          Enter name
       pd.printTable();
                                                          Pranavraj
                                              break;
                                      case 4:
                                                          Enter marks
                                                          95
       System.out.println("Enter roll no");
                                              roll_no =
sc.nextInt();
                                                          Printing Table:
       pd.deleteData(roll_no);
                                                          RollNo Name Marks
                                                          2
                                                                  Vinay
                                                                                 90
       pd.printTable();
                                                                  Vijay
                                                                                 95
                                                          3
                                                          25
                                                                  Akshay
                                                                                 95
                                              break;
                                      case 5:
                                                          30
                                                                  Pranavrai
                                                                                 95
                                              break;
                                      default:
                                                          1. Print table
                                              break;
                                                          2. Insert table
                              }
                                                          3. Update Data(marks)
                      }
                                                          4. Delete Data
                                                          5. Exit
               } catch (Exception e) {
                      System.out.println(" main" + e);
                                                          3
               }
       }
                                                          Enter roll no
}
                                                          2
                                                          Enter marks
                                                          95
                                                          Printing Table:
                                                          RollNo Name Marks
                                                                  Vinay
                                                                                 95
```

Output

3 25 30	Vijay Akshay Pranavraj	95 95 95	Program	
			import java.sql.*; import java.util.Scann	er;
 Print table Insert table Update Data(marks) Delete Data Exit 			<pre>public class CollableDemo { public static Connection con; static String query ="{call max_salary()}";</pre>	
4	4		public static void main(String agrs[]) throws Exception(Scapper se = now Scapper(System in):	
Enter roll no 25			Scanner sc = new Scanner(System.in); Class.forName("com.mysql.cj.jdbc.Driver");	
	ng Table :			<pre>con = nnection("jdbc:mysql://localhost:3</pre>
RollNo 2 3 30	o Name Mark Vinay Vijay Pranavraj	s 95 95 95	con.prepareCall(quer	CallableStatement stmt = y); System.out.println("Executing"); stmt.execute();
1. Print table 2. Insert table			stmt.getResultSet();	ResultSet rs =
3. Update Data(marks)4. Delete Data5. Exit			tName\tSALARY");	System.out.println("EMP_ID\
5				while (rs.next()) { int emp_id = rs.getInt(1); String emp_name =
			rs.getString(2);	int emp_salary =
			rs.getInt(3);	ср_ээхэгу
CallableStatement			System.out.println(emp_id + "\t" + emp_name + "\t" + emp_salary);	
`max_	CREATE DEFINER=`root`@`localhost` PROCEDURE `max_salary`() BEGIN			} System.out.println("\n");
10000 END	SELECT * FRO	OM employee WHERE emp_sal >		query = "{call total_emp(?)}"; stmt = con.prepareCall(query);
		oot`@`localhost` PROCEDURE IT) _id) INTO x FROM employee;	stmt.register(OutParameter(1,Types.INTEGER); System.out.println("Executing"); stmt.execute();
BEGIN			of employess in comp	System.out.println("Total count pany is " + stmt.getInt(1)); System.out.println("\n");
`salary BEGIN SELEC	y_emp`(IN id IN I	oot`@`localhost` PROCEDURE T,OUT sal INT) O sal FROM employee WHERE	Employee id");	<pre>query = "{call salary_emp(?,?)}"; stmt = con.prepareCall(query); System.out.println("Enter int ch = sc.nextInt(); stmt.setInt(1,ch);</pre>
END			stmt.register(OutParameter(2,Types.INTEGER); System.out.println("Executing");

```
stmt.execute();
```

```
System.out.println("Salay of
Employee "+ch+" : " + stmt.getInt(2));
                      System.out.println("\n");
       }
}
```

Output

 $\operatorname{\mathsf{cd}}$

"/home/akshay/Akshay/Codes/Java/java2_prgms/Java jdbc" ; /usr/bin/env /opt/java/jdk1.8.0_321/bin/java cp/tmp/cp_4ms2pnrnh8tf408d7ld2q6og1.jar CollableDemo

Executing...

EMP_ID Name SALARY 101 Akshay 160000 104 Rupesh 120000

Executing...

Total count of employess in company is 3

Enter Employee id 101 Executing...

Salay of Employee 101: 160000