ASSIGNMENT – 3

MODERN APPLICATION DEVELOPMENT USING SPRINGBOOT

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IMPLEMENTING JDBC USING JAVA

Creating the Database demo and the table student in the Command Line Interface (CLI):

JDBC Program to insert records using Statement and Display it using

Result Set Code:

```
package studentjdbc;
import java.sql.*; public
class insertrecords
{
    public void inserting()
    {
        final String url = "jdbc:mysql://localhost:3307/demo";
final String user = "root";
```

```
final String pass = "root";
try
    {
//
        Class.forName("com.mysql.jdbc.Driver");
       Connection conn = DriverManager.getConnection(url,user,pass);
                                              st.executeUpdate("INSERT
Statement st = conn.createStatement();
INTO student VALUES
(1,'SHRIKUMARAN',99,98,95);");
       st.executeUpdate("INSERT INTO student VALUES
(2,'VIGNESH',93,92,99);");
       st.executeUpdate("INSERT INTO student VALUES (3,'ROSHAN',
                   st.executeUpdate("INSERT INTO
88,84,56);");
student VALUES
(4,'DHANESHWAR',67,76,77);");
       st.executeUpdate("INSERT INTO student VALUES
(5,'NATARAJAN',88,84,88);");
       ResultSet rs = st.executeQuery("SELECT * FROM student");
       while(rs.next())
         System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3)+"
"+rs.getInt(4)+" "+rs.getInt(5));
st.close();
rs.close();
    catch(Exception e)
    {
       System.out.println(e);
  }
Output:
 1 SHRIKUMARAN 99 98 95
 2 VIGNESH 93 92 99
 3 ROSHAN 88 84 56
 4 DHANESHWAR 67 76 77
 5 NATARAJAN 88 84 88
BUILD SUCCESSFUL (total time: 0 seconds)
```

JDBC Program to Delete rows that satisfies a particular condition:

```
CODE:
package studentjdbc; import
java.sql.*;
public class deleterecords {
  final String url = "jdbc:mysql://localhost:3307/demo";
  final String user = "root";
final String pass = "root";
  public void delete()
{
      t
ry
        Connection conn = DriverManager.getConnection(url,user,pass);
Statement st = conn.createStatement();
        int count = st.executeUpdate("delete from student where mark1>80 and
mark1<90");
        if(count>0)
          System.out.println("Student record deleted:");
else
          System.out.println("NO records deleted: ");
     }
     catch(Exception e)
OUTPUT:
 Output - StudentJDBC (run)
      Student record deleted :
      BUILD SUCCESSFUL (total time: 1 second)
 Student table after deletion: mysql> select * from student
  rollno | name
                      | mark1 | mark2 | mark3
       1 | SHRIKUMARAN
                          99
                                 98
                                         95
          VIGNESH
                          93
                                 92
                                         99
                                 76
       4 | DHANESHWAR
                          67
                                         77
3 rows in set (0.00 sec)
```

mysql>

```
System.out.println(e);
}
```

UPDATING THE TABLE BASED ON A CONDITION:

```
Code:
```

```
public void update()
{
      t
ry
       Connection conn = DriverManager.getConnection(url,user,pass);
Statement st = conn.createStatement();
       int res = st.executeUpdate("UPDATE student set mark1=95 where rollno=2");
if(res>0)
         System.out.println("Updated Successfully");
else
          System.out.println("No Rows affected: ");
     catch(Exception e)
     {
       System.out.println(e);
   }
Output:
  Updated Successfully
  BUILD SUCCESSFUL (total time: 0 seconds)
```

Student Table after updating:

```
mysql> select * from student
 rollno
                         mark1
                                  mark2
                                          mark3
           name
           SHRIKUMARAN
                             99
                                     98
                                             95
           VIGNESH
                             95
                                     92
                                             99
                                     76
           DHANESHWAR
3 rows in set (0.00 sec)
mysql>
```

INSERTING USING PREPARED STATEMENT:

Code:

```
public void insPrep() {
     try {
       Connection conn = DriverManager.getConnection(url, user, pass);
PreparedStatement stmt = conn.prepareStatement("insert into student
values(?,?,?,?,?)");
       stmt.setInt(1, 5);//1 specifies the first parameter in the query
stmt.setString(2, "Gokul");
                                   stmt.setInt(3,88);
stmt.setInt(4,99);
                          stmt.setInt(5,77);
       int i = stmt.executeUpdate();
       System.out.println(i + " records inserted");
       conn.close();
                          }
catch (Exception e) {
       System.out.println(e);
     }
Output:
  1 records inserted
  BUILD SUCCESSFUL (total time: 0 seconds)
```

Student Table after insertion: