# **ASSIGNMENT-3**

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# Q) Implement Java Assignment for Java JDBC using java

**Creating Database in mysql** 

```
mysql> create database jdbcdb;
Query OK, 1 row affected (0.01 sec)
```

#### **Creating Table**

```
mysql> Create table emp (emp_id int, empname varchar(10), email varchar(30), city varchar(10));
Query OK, 0 rows affected (0.02 sec)
```

### **Describing Emp table**

```
mysql> desc emp;
 Field
                       | Null | Key | Default | Extra
         Type
 emp id
          int
                         YES
                                     NULL
                        YES
 empname | varchar(10)
                                     NULL
 email
           varchar(30)
                        YES
                                     NULL
 city
          varchar(10) YES
                                     NULL
4 rows in set (0.02 sec)
```

## Inserting the Record into table;

#### Code:

```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
      private static Connection con=null;
      public static void main(String[] args) {
              try {
                     Class.forName("com.mysql.cj.jdbc.Driver");
                    String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
                    String username="root";
                    String password="root";
                    con=DriverManager.getConnection(dbURL,username,password);
                     //Insert the record
             String sql = "INSERT INTO emp (emp_id, empname, email, city) VALUES
(?, ?, ?, ?)";
             PreparedStatement statement = con.prepareStatement(sql);
             statement.setInt(1, 104);
```

```
statement.setString(2, "Saran");
statement.setString(3, "Saran@gmail.com");
statement.setString(4, "Vijayawada");
               int rowsInserted = statement.executeUpdate();
               if (rowsInserted > 0)
                     System.out.println("A new employee was inserted
successfully!\n");
               // Display the record
               String sql1 = "SELECT * FROM Emp";
               Statement stmt = con.createStatement();
               ResultSet result = stmt.executeQuery(sql1);
               while (result.next())
               {
                     System.out.println (result.getInt(1)+" "+
                     result.getString(2)+" "+
                     result.getString(3)+" "+
                     result.getString(4));
               }
                catch(Exception ex)
          {
                ex.printStackTrace();
          }
}
```

#### Screenshot:

```
### StudentDatabasejava E

| package con.jdbc.student;
| majort java.sql.riverManager;
| almort java.sql.riverManager;
| almor
```

#### Output:

#### **Inserting More rows:**

```
mysql> select * from emp;
                                         city
  emp id | empname
                     email
                     Saran@gmail.com
                                        Vijayawada
    104
           Saran
                    Deepesh@gmail.com
                                         Tenali
    104
          Deepesh
                                         Tenali
    105
          Deepesh
                     Deepesh@gmail.com
          Vamsi
                     Vamsi@gmail.com
    106
                                         Hyd
4 rows in set (0.00 sec)
```

## **Deleting a record From Table:**

Deleting a record from emp table wher empname is Vamsi

```
Code:
```

```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
      private static Connection con=null;
      public static void main(String[] args) {
                     Class.forName("com.mysql.cj.jdbc.Driver");
                     String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
                     String username="root";
                     String password="root";
                     con=DriverManager.getConnection(dbURL,username,password);
                    //Delete the record
                     String sql3 = "DELETE FROM Emp WHERE empname=?";
                     PreparedStatement statement1 = con.prepareStatement(sql3);
                     statement1.setString(1, "Vamsi");
                     int rowsDeleted = statement1.executeUpdate();
                     if (rowsDeleted > 0)
                     {
                          System.out.println("A Employee was deleted
successfully!\n");
                     }
              catch(Exception ex)
         {
              ex.printStackTrace();
         }
}
```

#### Screenshot:

```
② *StudentDatabaseJava ⊠

1 package com.jdbc.student;

2 *Import java.sql.DriverManager;

3 import java.sql.Squas adl.DriverManager;

4 public class StudentDatabase {

5 private static Connection conenul;

6 public static void main(String[] args) {

7 try {

8 Class.forName("com.mysql.cj.jdbc.Driver");

9 String dbURL="jdbc:mysql://localhost:3306/jdbcdb";

5 String password="root";

11 String password="root";

12 conneDriveManager_getConnection(dbURL,username,password);

13 //Delete the record

4 String spls = "DelETE FROM Emp bMERE empname=?";

15 PreparedStatement statement1 = con.prepareStatement(sql3);

16 statement1.estString(1, Vamsi');

17 

18 int rowsDeleted = statement1.executeUpdate();

19 if (rowsDeleted > 0)

4 System.out.println("A Employee was deleted successfully!\n");

2 }

2 }

2 catch(Exception ex) {

4 ex.printStackTrace();

3 }

3 }

3 }

3 }
```

### Output:

## **Updating The Records:**

**Updating the email of Saran(empname)** 

```
Code:
```

```
package com.jdbc.student;
import java.sql.DriverManager;
import java.sql.*;
public class StudentDatabase {
          private static Connection con=null;
          public static void main(String[] args) {
                      try {
                                 Class.forName("com.mysql.cj.jdbc.Driver");
                                 String dbURL="jdbc:mysql://localhost:3306/jdbcdb";
                                 String username="root";
                                 String password="root";
                                 con=DriverManager.getConnection(dbURL,username,password);
                                //Update the record
                                 String sql2 = "Update Emp set email = ? where empname = ?";
                                 PreparedStatement pstmt = con.prepareStatement(sql2);
                                 pstmt.setString(1, "Smartbridge@gmail.com");
                                 pstmt.setString(2, "Saran");
                                 int rowUpdate = pstmt.executeUpdate();
                                 if (rowUpdate > 0)
                                 {
                                         System.out.println("\nRecord updated successfully!!\n");
                                  }
                      catch(Exception ex)
              {
                      ex.printStackTrace();
              }
}
Screenshot:
<terminated> StudentDatabase [Java Application] C:\Users\Deepu\.p2\pool\plugins\org.e
                                                                                     Record updated successfully!!
             {
    (class.forWame("com.mysql.cj.jdbc.Driver");
    String dbURL="jdbc.mysql.//localhost:3306/jdbcdb";
    String username="root";
    String password="root";
    con-DriverManager.getConnection(dbURL, username, password);
    //update the record
    String sql2 = "update Emp set email = ? where empname = ?"
    PreparedStatement pstmt = con.prepareStatement(sql2);
    pstmt.setString(1, "Smartbridge@pmail.com");
    pstmt.setString(2, "Saran");
    int rowUpdate = pstmt.executeUpdate();
    if (rowUpdate > 0)
}
  System.out.println("\nRecord updated successfully!!\n");
```

### **Output:**