## CS313, Lab – 6

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## Q.1]

### Code Screenshot:

### Output:

```
    Problems @ Javadoc    Declaration    □ Console    □

<terminated> first [Java Application] C:\Program Files\Java\jre1.8.0_261\bin\javaw.exe (10 Oct, 2020 4:06:21 PM - 4:06:22 PM)
Java JDBC PostgreSQL Example
Connected to PostgreSQL database!
Reading student records...
id name grade course_id
20985 Wunderli A+ 304
94569 Yip A+ 960
27094 Gur A+ 304
1232 Marcus A+ 304
16528 Angs A+ 105
61127 Tuki A+ 237
19342 Bouzeghoub A+ 242
79210 Sanchez A+ 237
92040 Alexandri A+ 334
85575 Lal A+ 242
58413 Xiong A+ 334
4173 Erol A+ 237
18809 Benson A+ 960
60984 Emms A+ 304
3005 Ibrahim A+ 237
43981 Quimby A+ 960
66763 Wilks A+ 486
9183 Sutter A+ 304
56755 Paul A+ 242
8140 Paddock A+ 105
31337 Graziano A+ 242
22620 Lykin A+ 237
57334 Roeder A+ 960
98563 Yen A+ 486
64259 Busch A+ 237
56 Kameda A+ 105
31486 Okubo A+ 242
72177 Eller A+ 304
74672 Eggers A+ 486
91580 Cabr A+ 242
96324 Sudirm A+ 486
64196 Rioult A+ 237
56499 Zarpell A+ 105
```

# **Q.2**]

#### **Code Screenshot:**

```
1 import java.sql.Connection;
 2 import java.sql.DriverManager;
3 import java.sql.PreparedStatement;
4 import java.sql.ResultSet;
5 import java.sql.SQLException;
6 import java.sql.Statement;
8 public class second {
9⊜
       public static void main(String[] args) {
10
11
           try (Connection connection =
           DriverManager.getConnection("jdbc:postgresql://localhost:5432/university", "postgres",
12
13
            "123456")) {
14
                System.out.println("Java JDBC PostgreSQL Example");
                System.out.println("Connected to PostgreSQL database!");
16
                Statement statement = connection.createStatement();
17 //
                System.out.println("Reading student records...");
                PreparedStatement smt = connection.prepareStatement("INSERT INTO instructor VALUES(?, ?, ?, ?)");
18
19
                smt.setInt(1, 10102);
                smt.setString(2, "Rishit");
smt.setString(3, "Comp. Sci.");
20
21
22
                smt.setInt(4, 45445);
23
24
                int count = smt.executeUpdate();
25
                System.out.println(count + " Records Inserted");
26
           } catch (SQLException e) {
28
                System.out.println("Connection failure.");
29
                e.printStackTrace();
30
31
```

### Output:

```
Problems @ Javadoc ☐ Declaration ☐ Console ☐
```

## **Q.3**]

Code Screenshot:

```
1 import java.sql.Connection;
 2 import java.sql.DriverManager;
 3 import java.sql.PreparedStatement;
 4 import java.sql.ResultSet;
 5 import java.sql.SQLException;
 6 import java.sql.Statement;
 8 public class third {
        public static void main(String[] args) {
             try (Connection connection =
             DriverManager.getConnection("jdbc:postgresql://localhost:5432/university", "postgres",
              "123456")) {
14
                  System.out.println("Java JDBC PostgreSQL Example");
                  System.out.println("Connected to PostgreSQL database!");
                  Statement statement = connection.createStatement();
System.out.println("Reading student records...");
17 //
18
19
20
                  PreparedStatement stmt = connection.prepareStatement("UPDATE instructor SET dept_name = ? WHERE name = ?");
stmt.setString(1, "Math");
stmt.setString(2, "Levine");
                  int count = stmt.executeUpdate();
                  System.out.println(count + " Record Updated");
             } catch (SQLException e) {
    System.out.println("Connection failure.");
                  e.printStackTrace();
28
        }
```

### **Output:**

```
Problems @ Javadoc  □ Declaration □ Console  □ Console
```