



# **SRI RAMACHANDRA**

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Category - I Deemed to be University) Porur, Chennai

**SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY**

## **CSE 280 ADVANCE JAVA**

### **STUDENT WORK BOOK**

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**Year** : II

**Quarter** : Q6

**Department** : B.Tech CSE (AI &ML)

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**Academic Year** : 2020-2021

**Date: 19-11-2020**

## **Questions:**

Perform operations on the database by connecting with Java.

## **Program:**

```
package advjava.java.sql;

import java.sql.*;

public class App
{
    public static void main( String[] args )
    {

        addProduct(40, "stapler", 30);
        display();
        changeName(40, "marker");
        display();
        changePrice(20, 4);
        display();
    }

    public static void addProduct(int id, String name, int price) {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = null;
            con =
            DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
            "");
            java.sql.Statement stmt=con.createStatement();

            int a=stmt.executeUpdate("insert into products
            values("+id+", '"+name+"', "+price+"");
            System.out.println(a);

            con.close();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    public static void delProduct(int id) {
        try {
```

```

Class.forName("com.mysql.cj.jdbc.Driver");
Connection con = null;
con
=DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJBCC
ompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
"");
java.sql.Statement stmt=con.createStatement();

int b=stmt.executeUpdate("delete from products where id="+id);
System.out.println(b);

con.close();
} catch (Exception e) {
// TODO Auto-generated catch block
e.printStackTrace();
}
}

public static void changeName(int id, String newName) {
try {
Class.forName("com.mysql.cj.jdbc.Driver");
Connection con = null;
con
=DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJBCC
ompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
"");
java.sql.Statement stmt=con.createStatement();

int b=stmt.executeUpdate("update products set name='"+newName+"' where id="+id);
System.out.println(b);

con.close();
} catch (Exception e) {
// TODO Auto-generated catch block
e.printStackTrace();
}
}

public static void changePrice(int id, int newPrice) {
try {
Class.forName("com.mysql.cj.jdbc.Driver");
Connection con = null;
con
=DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJBCC
ompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
"");
java.sql.Statement stmt=con.createStatement();

int b=stmt.executeUpdate("update products set price="+newPrice+" where id="+id);
System.out.println(b);

con.close();
} catch (Exception e) {
// TODO Auto-generated catch block
e.printStackTrace();
}
}

```

```

    }
    }

    public static void display()
    {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = null;
            con =
            DriverManager.getConnection("jdbc:mysql://localhost/advjava?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC","root",
            "");
            java.sql.Statement stmt=con.createStatement();

            ResultSet res = stmt.executeQuery("select * from products");
            while(res.next()) {
                System.out.println(res.getInt(1)+res.getString(2)+res.getInt(3));
            }
            System.out.println("\n");

            con.close();
        } catch (Exception e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}

```

## Output:

```

1
10pen10
20pencil5
30eraser5
40stapler30

```

```

1
10pen10
20pencil5
30eraser5
40marker30

```

```

1
10pen10
20pencil4
30eraser5
40marker30

```