

JDBC ASSIGNMENT

Create table product

1. insert new product (add product)
2. 2. update product for given product id,
3. 3 delete product for given product id,
4. 4. list all products.

you need to implement methods, addProduct(), deleteProduct(), updateProduct(), ListProducts().

Solution:

```
import java.sql.*;

public class JdbcDemo1
{
    public static void main(String[] args)
    {
        Connection con = null;
        Statement st = null;
        ResultSet rs = null;

        try {
            // Step 1: Load JDBC driver
            Class.forName("oracle.jdbc.OracleDriver");

            // Step 2: Establish connection
            con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:9501/XE",
            "system", "rps@123");
            System.out.println("Connection is successful.");

            // Step 3: Create statement
            st = con.createStatement();

            // Step 4: Execute SQL queries
            st.executeUpdate("create table product(id number primary key,name
            varchar(10),price number)");
            st.executeUpdate("insert into product values(4,'bag',999)");
            st.executeUpdate("insert into product values(5,'book',1999)");
            st.executeUpdate("insert into product values(6,'table',2999)");

            st.executeUpdate("update product set price =2000 where id=4");
            st.executeUpdate("delete from product where id=5");
```

```

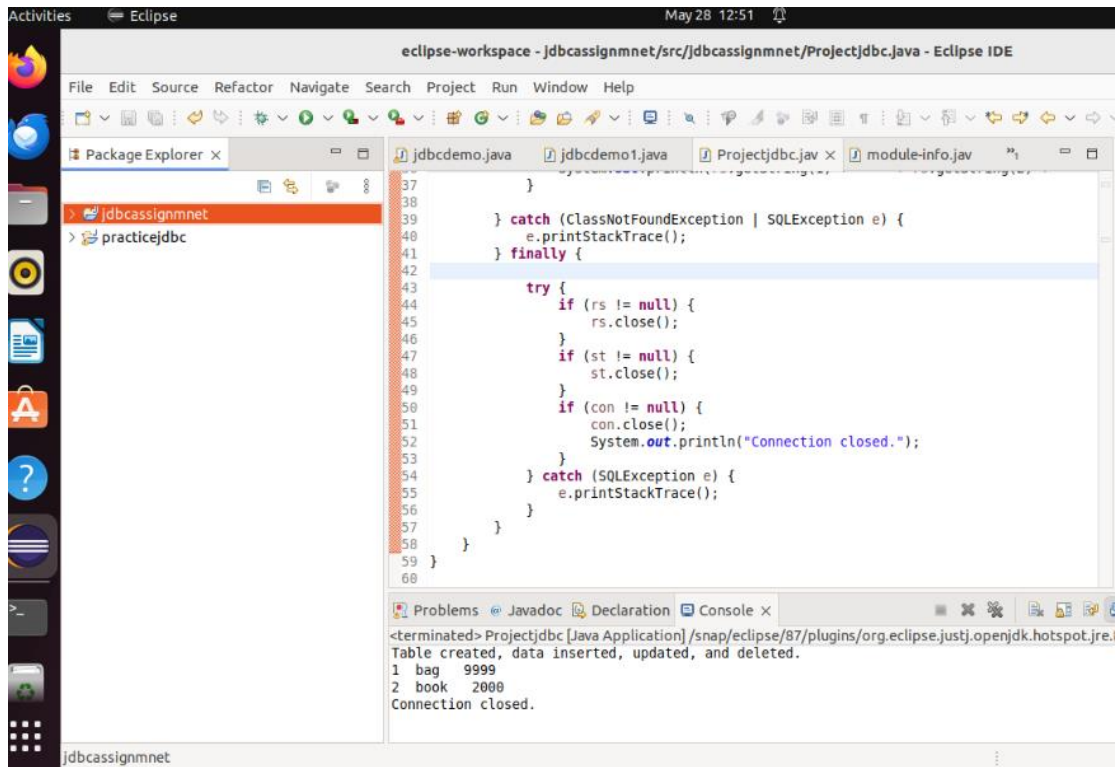
System.out.println("Table created, data inserted, updated, and deleted.");

// Step 5: Execute query to retrieve data
rs = st.executeQuery("select * from product");

// Step 6: Process the result set
while (rs.next())
{
    System.out.println(rs.getString(1) + " " + rs.getString(2) + " " + rs.getString(3));
}

}
catch (ClassNotFoundException | SQLException e)
{
    e.printStackTrace();
}
Finally
{
    // Step 7: Close resources in reverse order of creation
    try
    {
        if (rs != null)
        {
            rs.close();
        }
        if (st != null)
        {
            st.close();
        }
        if (con != null)
        {
            con.close();
        }
        System.out.println("Connection closed.");
    }
    catch (SQLException e)
    {
        e.printStackTrace();
    }
}
}
}
}

```

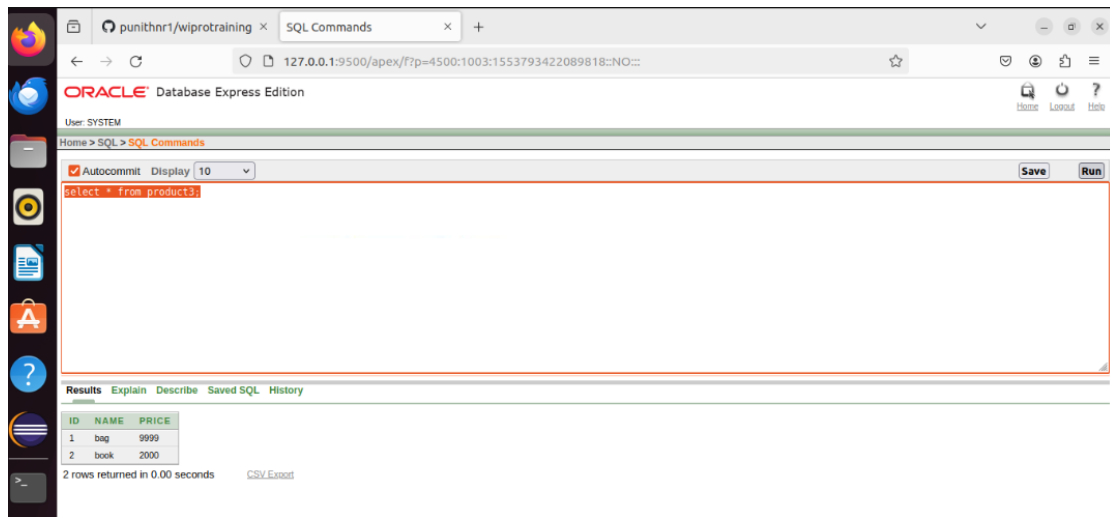


```
37 }
38
39 } catch (ClassNotFoundException | SQLException e) {
40     e.printStackTrace();
41 } finally {
42
43     try {
44         if (rs != null) {
45             rs.close();
46         }
47         if (st != null) {
48             st.close();
49         }
50         if (con != null) {
51             con.close();
52             System.out.println("Connection closed.");
53         }
54     } catch (SQLException e) {
55         e.printStackTrace();
56     }
57 }
58 }
59 }
60 }
```

Problems Javadoc Declaration Console X

<terminated> Projectjdbc [Java Application] /snap/eclipse/87/plugins/org.eclipse.justj.openjdk.hotspot.jre.
Table created, data inserted, updated, and deleted.
1 bag 9999
2 book 2000
Connection closed.

Output:



Oracle Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

select * from product3

Results Explain Describe Saved SQL History

ID	NAME	PRICE
1	bag	9999
2	book	2000

2 rows returned in 0.00 seconds CSV Export

output