

JDBC Assignment1

Create table product

1. Insert new product
2. Update product for a given product id
3. Delete product for given product id
4. List all product

You need to implement

methods,addProduct(),deleteProduct(),updateProduct(),listProduct()

```
package com.wipro.io;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.sql.Statement;
```

```
public class JdbcProduct1 {
```

```
    private Connection connection;
```

```
    public JdbcProduct1(Connection connection) {
```

```
        this.connection=connection;
```

```
    }
```

```
    public static void main(String[] args) throws SQLException, ClassNotFoundException {
```

```
        // TODO Auto-generated method stub
```

```
        try {
```

```
            Class.forName("oracle.jdbc.OracleDriver");
```

```
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:9501/XE", "system",
"rps@123");
```

```
        System.out.println("connection successfull");
```

```
        JdbcProduct1 pr=new JdbcProduct1(con);
```

```
        pr.createProductTable();
```

```
        pr.addProduct(101,"phone",10000);
```

```
        pr.updateProduct(101,"iphone",90000);
```

```
        pr.addProduct(102,"Bag",1000);
```

```
        pr.addProduct(103,"Laptop",50000);
```

```
        pr.addProduct(104, "Books", 200);
```

```
        pr.deleteProduct(1);
```

```
        pr.listProduct();
```

```
        con.close();
```

```
    } catch(SQLException e) {
        e.printStackTrace();
    }
```

```
}
```

```
public void createProductTable() {
```

```
    // TODO Auto-generated method stub
```

```
    try (Statement statement=connection.createStatement()){
```

```
        String sql="CREATE TABLE Product("+
```

```
            "id NUMBER PRIMARY KEY,"+
```

```

        "name VARCHAR(20)," +
        "price NUMBER)";

        statement.executeUpdate(sql);

        System.out.println("Product table created");
    }
    catch(SQLException e) {
        e.printStackTrace();
    }
}

public void addProduct(int id,String name, int price)throws SQLException{

    try(PreparedStatement pst=connection.prepareStatement("Insert into
Product(id,name,price)values(?,?,?)")){
        pst.setInt(1, id);
        pst.setString(2, name);
        pst.setInt(3, price);
        pst.executeUpdate();
        System.out.println("Product Added");
    }
}

public void updateProduct(int id, String name, int price) throws SQLException {
    // TODO Auto-generated method stub

    try(PreparedStatement pst=connection.prepareStatement("Update product set
name=?,price=? where id=?")){
        pst.setString(1, name);
        pst.setInt(2, price);
        pst.setInt(3, id);
    }
}

```

```

        pst.executeUpdate();

        System.out.println("product Updated");
    }

}

private void deleteProduct(int id) throws SQLException {
    // TODO Auto-generated method stub
    try(PreparedStatement pst=connection.prepareStatement("Delete from product
where id=?")){
        pst.setInt(1, id);
        pst.executeUpdate();
        System.out.println("product deleted");
    }

}

private void listProduct() throws SQLException {
    // TODO Auto-generated method stub
    try(Statement statement = connection.createStatement();
        ResultSet resultset=statement.executeQuery("Select * from
Product")){
        while(resultset.next()) {

            System.out.println(resultset.getInt("id")+"|" +resultset.getString("name")+"|" +resultset.get
Int("price"));

        }
    }

}

```

}

