

```

package jdbc2;

public class Customer {
    private int custId;
    private String custName;
    private String custEmail;
    private String custPass;
    private String custPhone;
    private String custAdd;
    public int getCustId() {
        return custId;
    }
    public void setCustId(int custId) {
        this.custId = custId;
    }
    public String getCustName() {
        return custName;
    }
    public void setCustName(String custName) {
        this.custName = custName;
    }
    public String getCustEmail() {
        return custEmail;
    }
    public void setCustEmail(String custEmail) {
        this.custEmail = custEmail;
    }
    public String getCustPass() {
        return custPass;
    }
    public void setCustPass(String custPass) {
        this.custPass = custPass;
    }
    public String getCustPhone() {
        return custPhone;
    }
    public void setCustPhone(String custPhone) {
        this.custPhone = custPhone;
    }
    public String getCustAdd() {
        return custAdd;
    }
    public void setCustAdd(String custAdd) {
        this.custAdd = custAdd;
    }
    @Override
    public String toString() {
        return "Customer [custId=" + custId + ", custName=" + custName + ", custEmail=" + custEmail + ", custPass="
            + custPass + ", custPhone=" + custPhone + ", custAdd=" + custAdd + "]\n";
    }
}

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```

package jdbc2;

import java.sql.*;
import java.util.*;

public class CustomerServlet {
    private Connection conn;
    private PreparedStatement pstmt;
    private ResultSet rs;

    public CustomerServlet() {
        try {
            conn = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "scott", "tiger");
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public void addCustomer() {
        String sql = "insert into customer (custId, custName, custEmail, custPhone, custAdd) values (?,?,?,?,?)";
        try {
            pstmt = conn.prepareStatement(sql);
            pstmt.setString(1, "");
            pstmt.setString(2, "");
            pstmt.setString(3, "");
            pstmt.setString(4, "");
            pstmt.setString(5, "");
            pstmt.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public void deleteCustomer(int custId) {
        String sql = "delete from customer where custId=?";
        try {
            pstmt = conn.prepareStatement(sql);
            pstmt.setInt(1, custId);
            pstmt.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public void updateCustomer(int custId, String custName, String custEmail, String custPhone, String custAdd) {
        String sql = "update customer set custName=?, custEmail=?, custPhone=?, custAdd=? where custId=?";
        try {
            pstmt = conn.prepareStatement(sql);
            pstmt.setString(1, custName);
            pstmt.setString(2, custEmail);
            pstmt.setString(3, custPhone);
            pstmt.setString(4, custAdd);
            pstmt.setInt(5, custId);
            pstmt.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public void showCustomer() {
        String sql = "select * from customer";
        try {
            rs = conn.createStatement().executeQuery(sql);
            while (rs.next()) {
                int custId = rs.getInt("custId");
                String custName = rs.getString("custName");
                String custEmail = rs.getString("custEmail");
                String custPhone = rs.getString("custPhone");
                String custAdd = rs.getString("custAdd");
                System.out.println(custId + " " + custName + " " + custEmail + " " + custPhone + " " + custAdd);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public void showCustomerById(int custId) {
        String sql = "select * from customer where custId=?";
        try {
            pstmt = conn.prepareStatement(sql);
            pstmt.setInt(1, custId);
            rs = pstmt.executeQuery();
            while (rs.next()) {
                int custId = rs.getInt("custId");
                String custName = rs.getString("custName");
                String custEmail = rs.getString("custEmail");
                String custPhone = rs.getString("custPhone");
                String custAdd = rs.getString("custAdd");
                System.out.println(custId + " " + custName + " " + custEmail + " " + custPhone + " " + custAdd);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
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                String custAdd = rs.getString("custAdd");
                System.out.println(custId + " " + custName + " " + custEmail + " " + custPhone + " " + custAdd);
            }
        } catch (SQLException e) {
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    }

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        try {
            pstmt = conn.prepareStatement(sql);
            pstmt.setInt(1, custId);
            rs = pstmt.executeQuery();
            while (rs.next()) {
                int custId = rs.getInt("custId");
                String custName = rs.getString("custName");
                String custEmail = rs.getString("custEmail");
                String custPhone = rs.getString("custPhone");
                String custAdd = rs.getString("custAdd");
                System.out.println(custId + " " + custName + " " + custEmail + " " + custPhone + " " + custAdd);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}

```