

PersonDAO.java

```

1 import java.util.*;
2 import java.sql.*;
3
4 public class PersonDAO{
5
6     private ArrayList personsList;
7     private String userid = "scott";
8     private String password = "tiger";
9     static String url = "jdbc:odbc:bob";
10    private Connection con;
11
12    public PersonDAO(){
13        personsList = new ArrayList();
14        getConnection(); //Create Connection to the Database
15    }
16
17    public Connection getConnection(){
18        try {
19            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
20
21        } catch (java.lang.ClassNotFoundException e) {
22            System.err.print("ClassNotFoundException: ");
23            System.err.println(e.getMessage());
24        }
25        try {
26            con = DriverManager.getConnection(url, userid, password);
27        } catch (SQLException ex) {
28            System.err.println("SQLException: " + ex.getMessage());
29        }
30
31        return con;
32    }
33
34    public ArrayList searchPerson(String name){
35        try {
36            String sql = "SELECT * FROM Person WHERE name like '%" + name + "%'";
37            // Create a prepared statement
38            Statement s = con.createStatement();
39            ResultSet rs = s.executeQuery(sql);
40            String pname = "";
41            String address = "";
42            String email = "";
43            int id, phone;
44            while(rs.next()){
45                id = rs.getInt("id");
46                pname = rs.getString("name");
47                address = rs.getString("address");
48                phone = rs.getInt("phone");
49                email = rs.getString("email");
50                //Create a PersonInfo object
51                PersonInfo person = new PersonInfo(id, pname, address, phone,
email);
52                //Add the person object to array list
53                personsList.add(person);
54            }
55        }
56        catch (Exception e){
57            System.out.println(e);
58        }
59        return personsList;
60    }
61

```

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```

62     public void savePerson(PersonInfo person){
63         try{
64             String sql = "INSERT INTO Person(name, address, " + "phone, email)
VALUES (?, ?, ?, ?) ";
65
66             // Create a Preparedstatement
67             PreparedStatement ps = con.prepareStatement(sql);
68             ps.setString(1, person.getName());
69             ps.setString(2, person.getAddress());
70             ps.setInt(3, person.getPhone());
71             ps.setString(4, person.getEmail());
72             ps.executeUpdate();
73         }
74         catch(Exception e){
75             System.out.println(e);
76         }
77     }
78
79     public void updatePerson(PersonInfo person){
80         try{
81             String sql = "UPDATE Person SET name = ?, address=? , " +
82                 "phone=? , email=? where id=?";
83             // Create a Prepared statement
84             PreparedStatement ps = con.prepareStatement(sql);
85             ps.setString(1 , person.getName());
86             ps.setString(2 , person.getAddress());
87             ps.setInt(3 , person.getPhone());
88             ps.setString(4 , person.getEmail());
89             ps.setInt(5 , person.getId());
90             ps.executeUpdate();
91         }
92         catch(Exception e){
93             System.out.println(e);
94         }
95     }
96
97     public int removePerson(String name){
98         int no = 0;
99         try{
100             String sql = "DELETE FROM Person WHERE name = ?";
101             // Create a Prepared statement
102             PreparedStatement ps = con.prepareStatement(sql);
103             ps.setString(1, name);
104             no = ps.executeUpdate();
105         }
106         catch(Exception e){
107             System.out.println(e);
108         }
109         return no;
110     }
111 }

```