

File - /home/noynaert/classes/346/sql030example/src/main/java/App.java

```
1 import com.noynaert.sqlCredentials.SqlCredentials;
2
3 import java.sql.*;
4 import java.util.ArrayList;
5
6 /**
7  * todo: PROGRAM DESCRIPTION
8  *
9  * @author: YOUR NAME
10 * @since: MONTH YEAR program is started
11 */
12
13 public class App {
14     public static void main(String[] args) {
15         SqlCredentials cred = new SqlCredentials("woz.xml");
16
17         String host = cred.getHost();
18         String user = cred.getUser();
19         String password = cred.getPassword();
20
21         ArrayList<String> cityList = new ArrayList<>(600);
22
23         getCityList(cityList, user, host, password);
24         showAllCities(cityList, user, host, password);
25
26
27         System.out.println("\nDone!");
28     }
29
30     public static void getCityList(ArrayList<String> cityList, String user, String host, String
password) {
31         String connectionString = String.format("jdbc:mariadb://%s:3306/misc", host);
32
33         try {
34             Connection conn = DriverManager.getConnection(connectionString, user, password);
35         }
```

```
36 String query = "SELECT DISTINCT(city), state from usCityDemographics ORDER BY city ";
37
38 Statement stmt = conn.createStatement();
39 ResultSet rs = stmt.executeQuery(query);
40 while (rs.next()) {
41     String city = rs.getString(1);
42     String state = rs.getString(2);
43     String line = String.format("%s\t%s", city, state);
44     System.out.println(line);
45     cityList.add(line);
46 }
47 conn.close();
48
49 } catch (SQLException e) {
50     System.err.println("ERROR in getCityList(): " + e.getMessage());
51     System.exit(1);
52 }
53 }
54
55 private static void showAllCities(ArrayList<String> cityList, String user, String host, String
password) {
56     String connectionString = String.format("jdbc:mariadb://%s:3306/misc", host);
57
58     try {
59         Connection conn = DriverManager.getConnection(connectionString, user, password);
60
61         String query = "SELECT * FROM usCityDemographics WHERE city LIKE ? AND state LIKE ? ORDER
BY city";
62         PreparedStatement stmt = conn.prepareStatement(query);
63
64         for(String line : cityList) {
65             String[] fields = line.split("\t");
66             System.out.println(fields[0] + " " + fields[1]);
67
68             stmt.setString(1, fields[0]);
69 }
```

```
70     stmt.setString(2, fields[1]);
71
72     ResultSet rs = stmt.executeQuery();
73     while (rs.next()) {
74         String city = rs.getString("city");
75         String state = rs.getString("state");
76         String race = rs.getString("race");
77         int count = rs.getInt("count");
78         int population = rs.getInt("total_population");
79         System.out.printf("%-20s %-20s %-8d %-35s %7d\n", city, state, population, race,
80             count);
81     }
82     System.out.println("-----");
83     conn.close();
84     System.out.println("Done with showAllCities");
85
86 } catch (SQLException e) {
87     System.err.println("ERROR in showAllCities(): " + e.getMessage());
88     System.exit(1);
89 }
90
91
92 }
93
94 }
95
```