

Assignment1.java

```
1 /**Michael Masterson
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3  * Assignment One - RDBMS Practice Part 1
4  * COSC 471 Section 0
5  * Dr. Zhang
6  * October 18, 2016
7  */
8 import java.sql.*;
9
10 public class Assignment1
11 {
12     public static void main(String args[])
13     {
14         //start connection to JDBC
15         Connection c = null;
16         Statement stmt = null;
17         try{
18             Class.forName("org.sqlite.JDBC");
19             c = DriverManager.getConnection("jdbc:sqlite:C:/Sqlite/Northwind.db");
20             c.setAutoCommit(false);
21             System.out.println("Opened database");
22
23             //start creating queries, comment in or out code to execute query
24             stmt = c.createStatement();
25
26             /**This is where you can comment in if you want to get the Product Name of the
27              * 10 most expensive products.
28              */
29             /**ResultSet rs = stmt.executeQuery("SELECT DISTINCT ProductName, UnitPrice "
30              + "FROM Products AS a; "
31              + "WHERE 10 >= (SELECT COUNT (DISTINCT UnitPrice)"
32              + "FROM Products AS b"
33              + "WHERE b.UnitPrice >= a.UnitPrice"
34              + "ORDER BY UnitPrice desc");
35             while(rs.next())
36             {
37                 String name = rs.getString("ProductName");
38                 float price = rs.getFloat("UnitPrice");
39
40                 System.out.println("Product Name = " + name);
41                 System.out.println("Unit Price = " + price);
42                 System.out.println();
43             }*/
44
45             /**Get the company name, contact name and fax number of all customers
46              * that have a fax number
47              */
48             /**ResultSet rs = stmt.executeQuery("SELECT CompanyName, ContactName, Fax "
49              + "FROM Customers AS a; "
50              + "WHERE Fax IS NULL");
51             //+ "WHERE CompanyName AND ContactName == Fax");
52             while(rs.next())
53             {
54                 String cname = rs.getString("CompanyName");
55                 String cuname = rs.getString("ContactName");
56                 String fax = rs.getString("Fax");
57
```

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58         System.out.println("Company Name = " + cname);
59         System.out.println("Contact Name = " + cuname);
60         System.out.println("Fax = " + fax);
61         System.out.println();
62     }*/
63
64     /**Get the number of employees in each city in which there are at least two
employees
65         */
66     /**ResultSet rs = stmt.executeQuery("SELECT City, COUNT(*) "
67         + "FROM Employees"
68         + "WHERE (SELECT COUNT(*)"
69         + "FROM Employees"
70         + "WHERE EmployeeID IS NOT NULL"
71         + "GROUP BY City");
72
73     while(rs.next())
74     {
75         String city = rs.getString("City");
76         System.out.println("City = " + city);
77         System.out.println();
78     }*/
79
80     /**Get the number of employees and customers from each city
81     * that has employees in it.
82     */
83     /**ResultSet rs = stmt.executeQuery("SELECT CustomerID, EmployeeID, City, COUNT(*) "
84         + "FROM Employees E, Customers C"
85         + "WHERE (SELECT COUNT(*)"
86         + "FROM Employees E, Customers C"
87         + "WHERE E.EmployeeID AND C.CustomerID AND CITY == EmployeeID"
88         + "GROUP BY City");
89
90     while(rs.next())
91     {
92         String emp = rs.getString("EmployeeID");
93         System.out.println("Number = " + emp);
94         System.out.println();
95     }*/
96
97     /**Get the number of employees and customers from each city
98     * that has customers in it.
99     */
100    ResultSet rs = stmt.executeQuery("SELECT CustomerID, EmployeeID, City, COUNT(*) "
101        + "FROM Employees E, Customers C"
102        + "WHERE (SELECT COUNT(*)"
103        + "FROM Employees E, Customers C"
104        + "WHERE E.EmployeeID AND C.CustomerID AND CITY == CustomerID"
105        + "GROUP BY City");
106
107    while(rs.next())
108    {
109        String emp = rs.getString("EmployeeID");
110        System.out.println("Number = " + emp);
111        System.out.println();
112    }

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```
113         rs.close();
114         stmt.close();
115         c.close();
116     } catch (Exception e)
117     {
118         System.out.println(e.getClass().getName() + ": " + e.getMessage());
119         System.exit(0);
120     }
121     System.out.println("opened");
122 }
123 }
```