

# OJDBCDemo.java

```

1 package class19;
2
3 import java.sql.Connection;
9
10 public class OJDBCDemo {
11
12     public static void main(String[] args) {
13         try {
14             // load the Oracle driver into the JDBC driver manager
15             // "oracle.jdbc.OracleDriver" is the name that must be used
16             // there is an older reference oracle.jdbc.driver.OracleDriver that is now
17             deprecated Class.forName("oracle.jdbc.OracleDriver");
18         } // end try
19         catch (ClassNotFoundException ex) {
20             System.out.println("The Oracle driver is not available.");
21             System.out.println(ex.getMessage());
22         } // end catch
23         // conn must be defined here so that is "in scope" for the finally block
24         // this allows us to defer .close() all the way until then
25         Connection conn = null;
26         // JDBC database operations require exception handling (throw SQLException)
27         try {
28             // create a connection to the local Oracle database using the jdbc
29             // API and the Oracle driver/wrapper
30             // create conn once and pass it to all following method invocations as an argument
31             // this allows us to define the endpoint one time for the entire application and
32             then
33             // only have to change it in one place if necessary
34             // the following is a connection string for UCA's Oracle server
35             conn =
36             DriverManager.getConnection("jdbc:oracle:thin:@161.31.3.67:1521:xe", "MIS3339", "MIS3339");
37             // explicitly set transactional processing to be off
38             conn.setAutoCommit(true);
39             Statement stmt = conn.createStatement();
40             ResultSet rs = stmt.executeQuery("SELECT * FROM BOOKS");
41             // get the table's metadata
42             ResultSetMetaData md = rs.getMetaData();
43             // databases start counting at 1, not 0 like arrays
44             for (int i = 1; i <= md.getColumnCount(); i++) {
45                 System.out.print(String.format("%1$"+20+ "s",
46                 md.getColumnName(i).toUpperCase()));
47             } // end for
48             // insert a CR/LF after all the column names are printed out
49             System.out.print("\n");
50             // iterate through the rowset
51             while (rs.next()) {
52                 // iterate through the columns in each row
53                 for (int i = 1; i <= md.getColumnCount(); i++) {
54                     System.out.print(String.format("%1$"+20+ "s",
55                     rs.getObject(i).toUpperCase()));
56                 } // end for
57                 System.out.print("\n");
58             } // end while
59             System.out.println(""); // enter a blank line after outputting the db contents
60             stmt.close(); // close the Statement

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58         rs.close(); // close the ResultSet
59         conn.close(); // close the Connection
60     } catch (SQLException e) {
61         System.out.println(e.getMessage());
62         e.printStackTrace();
63     } // end catch
64 } // end main
65 } // end OJDBCDemo
```