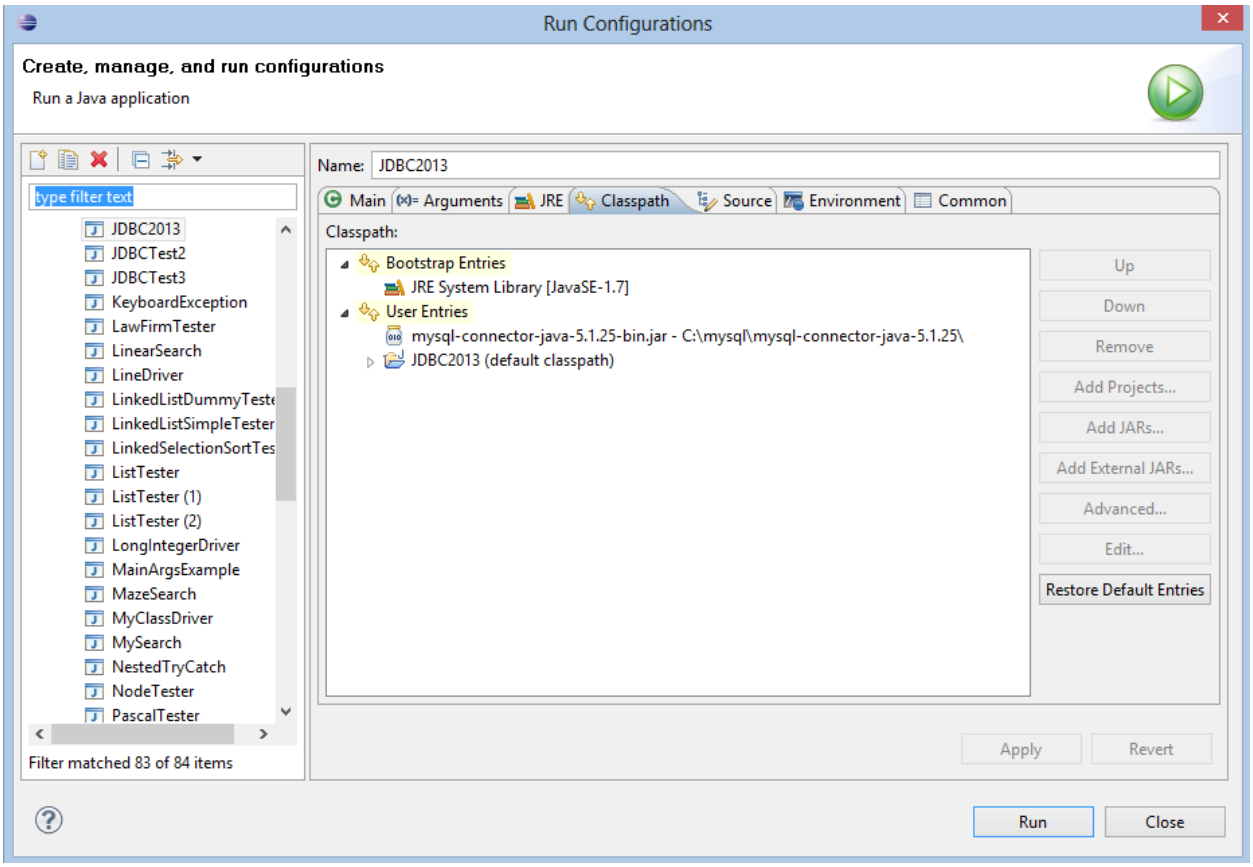
Example code for JDBC access.

Note the addition to the Classpath entry within Eclipse so the mysql-connector-java-5.1.25-bin.jar JDBC driver can be found. Go to the 'Run configurations…' menu option under 'Run', select the Classpath tab, click on 'User Entries' to select it and then click the 'Add External JARs…'. Navigate to where you installed the JDBC driver – 'mysql-connector-java-5.1.25-bin.jar'.




```
import java.sql.*;

public class JDBC2013
{
        public static void main(String args[])
        {
                System.out.println("Copyright 2004, R.G.Baldwin");
                // createDB();

                try
                {
                        Statement stmt;
                        ResultSet rs;
```

```
//Register the JDBC driver for MySQL.
Class.forName("com.mysql.jdbc.Driver");

//Define URL of database server for
// database named TestDB on the localhost
// with the default port number 3306.
//String url = "jdbc:mysql://localhost:3306/JunkDB";
String url = "jdbc:mysql://localhost:3306/TestDB";

//Get a connection to the database for a
// user named auser with the password
// drowssap, which is password spelled
// backwards.
Connection con = DriverManager.getConnection(url,"root", "");

//Display URL and connection information
System.out.println("URL: " + url);
System.out.println("Connection: " + con);

//Get a Statement object
stmt = con.createStatement();

//As a precaution, delete myTable if it
// already exists as residue from a
// previous run.  Otherwise, if the table
// already exists and an attempt is made
// to create it, an exception will be
// thrown.
try
{
        stmt.executeUpdate("DROP TABLE myTable");
}
catch(Exception e){
        System.out.print(e);
        System.out.println("No existing table to delete");
}//end catch

//Create a table in the database named
// myTable.
stmt.executeUpdate("CREATE TABLE myTable(id int, val char(15) not null)");

//Insert some values into the table
int x =stmt.executeUpdate("INSERT INTO myTable(id, val) VALUES(1,'One')");
stmt.executeUpdate("INSERT INTO myTable(id, val) VALUES(2,'Two')");
stmt.executeUpdate("INSERT INTO myTable(id, val) VALUES(3,'Three')");
stmt.executeUpdate("INSERT INTO myTable(id, val) VALUES(4,'Four')");
stmt.executeUpdate("INSERT INTO myTable(id, val) VALUES(5,'Five')");

//Get another statement object initialized
// as shown.
stmt = con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
                ResultSet.CONCUR_READ_ONLY);

stmt.execute("DELETE from myTable WHERE id = 1");

//Query the database, storing the result
// in an object of type ResultSet
rs = stmt.executeQuery("SELECT * from myTable ORDER BY id");

//Use the methods of class ResultSet in a
// loop to display all of the data in the
// database.
System.out.println("Display all results:");
while(rs.next())
{
        int theInt= rs.getInt("id");
        String str = rs.getString("val");
        System.out.println("\t id= " + theInt + "\t value = " + str);
}//end while loop
```

```
                //Display the data in a specific row using
                // the rs.absolute method.
                System.out.println("Display row number 2:");
                if( rs.absolute(2) )
                {
                        int theInt= rs.getInt("id");
                        String str = rs.getString("val");
                        System.out.println("\tid= " + theInt + "\tstr = " + str);
                }//end if

                //Delete the table and close the connection
                // to the database
                //stmt.executeUpdate("DROP TABLE myTable");
                con.close();
        }
        catch( Exception e )
        {
                e.printStackTrace();
        }//end catch
    }//end main

    public static void createDB()
    {
        Statement stmt;

        try
        {
                //Register the JDBC driver for MySQL.
                Class.forName("com.mysql.jdbc.Driver");

                //Define URL of database server for
                // database named mysql on the localhost
                // with the default port number 3306.
                String url = "jdbc:mysql://localhost:3306/mysql";

                //Get a connection to the database for a
                // user named root with a blank password.
                // This user is the default administrator
                // having full privileges to do anything.
                Connection con = DriverManager.getConnection(url,"root", "");

                //Display URL and connection information
                System.out.println("URL: " + url);
                System.out.println("Connection: " + con);

                //Get a Statement object
                stmt = con.createStatement();

                //Create the new database
                stmt.executeUpdate(
                "CREATE DATABASE JunkDB");
                //Register a new user named auser on the
                // database named JunkDB with a password
                // drowssap enabling several different
                // privileges.
                stmt.executeUpdate(
                                "GRANT SELECT,INSERT,UPDATE,DELETE," +
                                "CREATE,DROP " +
                                "ON JunkDB.* TO 'auser'@'localhost' " +
                "IDENTIFIED BY 'drowssap';");
                con.close();
        }
        catch( Exception e )
        {
                e.printStackTrace();
        }//end catch


    }

}
```