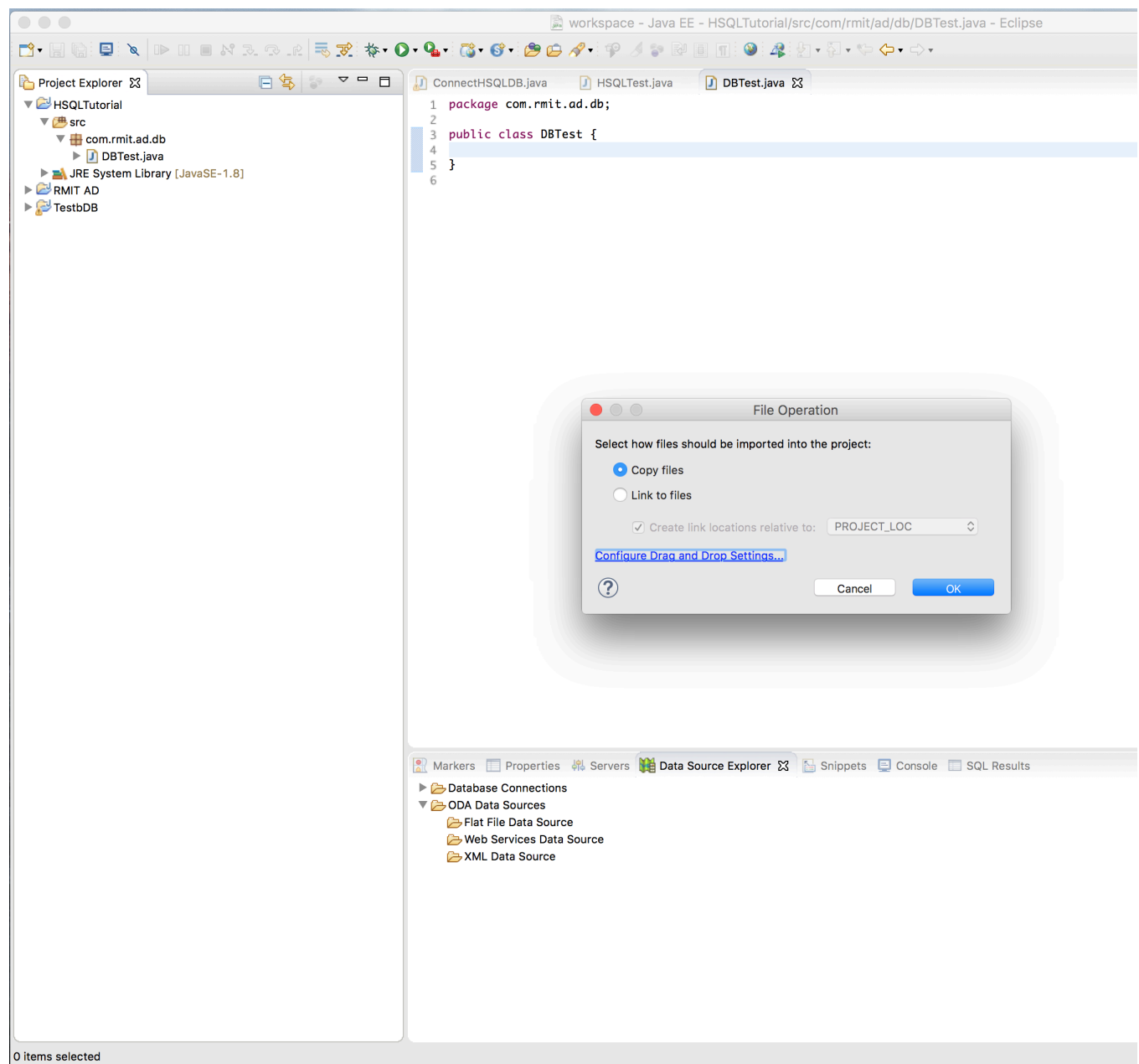# How to make use embedded HSQL database with Eclipse:

1- Make a new ava project, then make a new class named "DBTest" under your preferred packages.

2- Download the hsqldb-2.3.4.zip from [here](#) and unzip the file, go to lib folder and copy hsqldb.jar to your project directory, you can drag the jar file into project root directory. (You can drag and drop it)

Now you can see the jar file in your project explorer
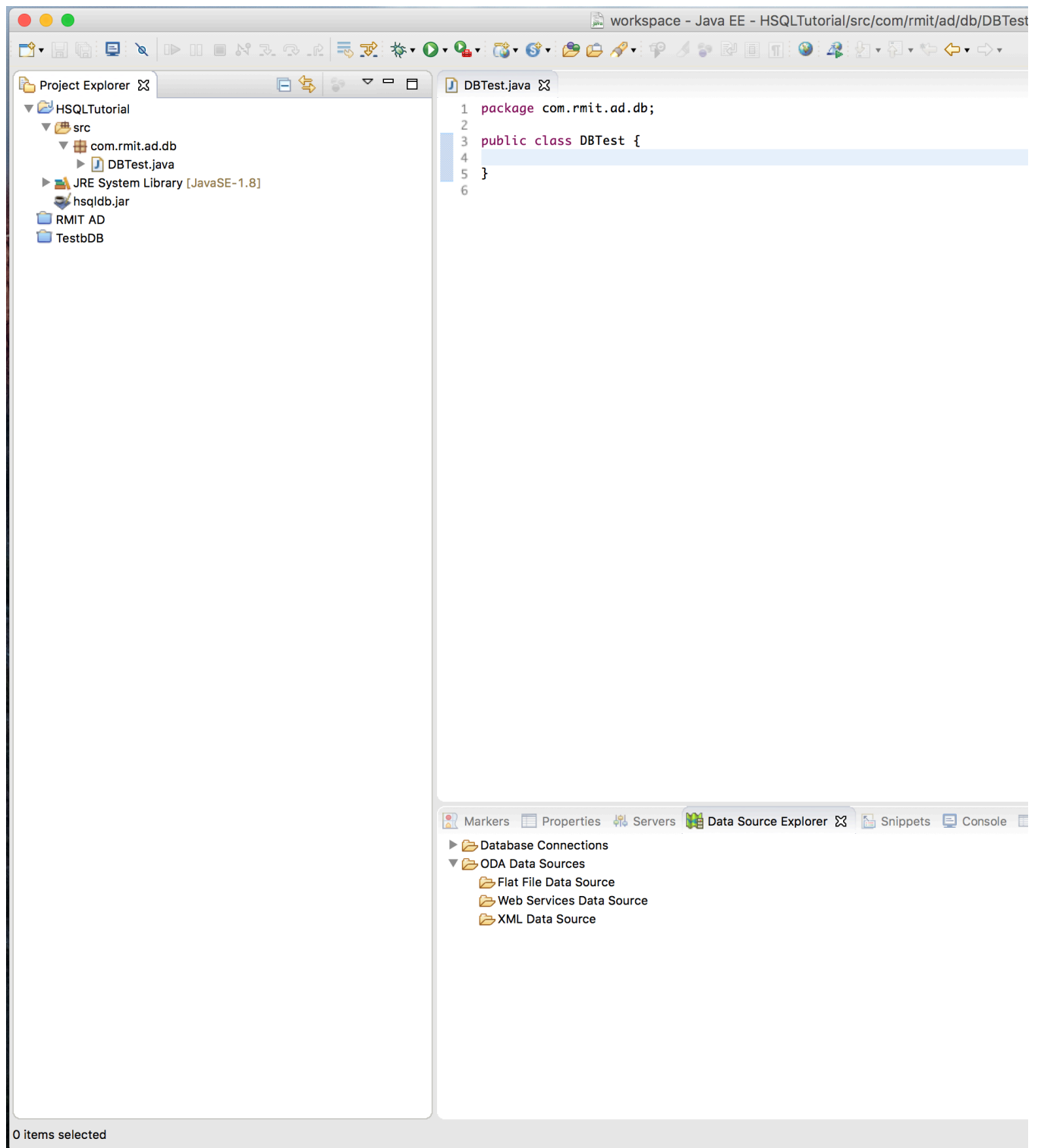
3- Right click on your project folder and open Properties, then click on Java Build Path and add your hsqldb.jar to the Libraries.
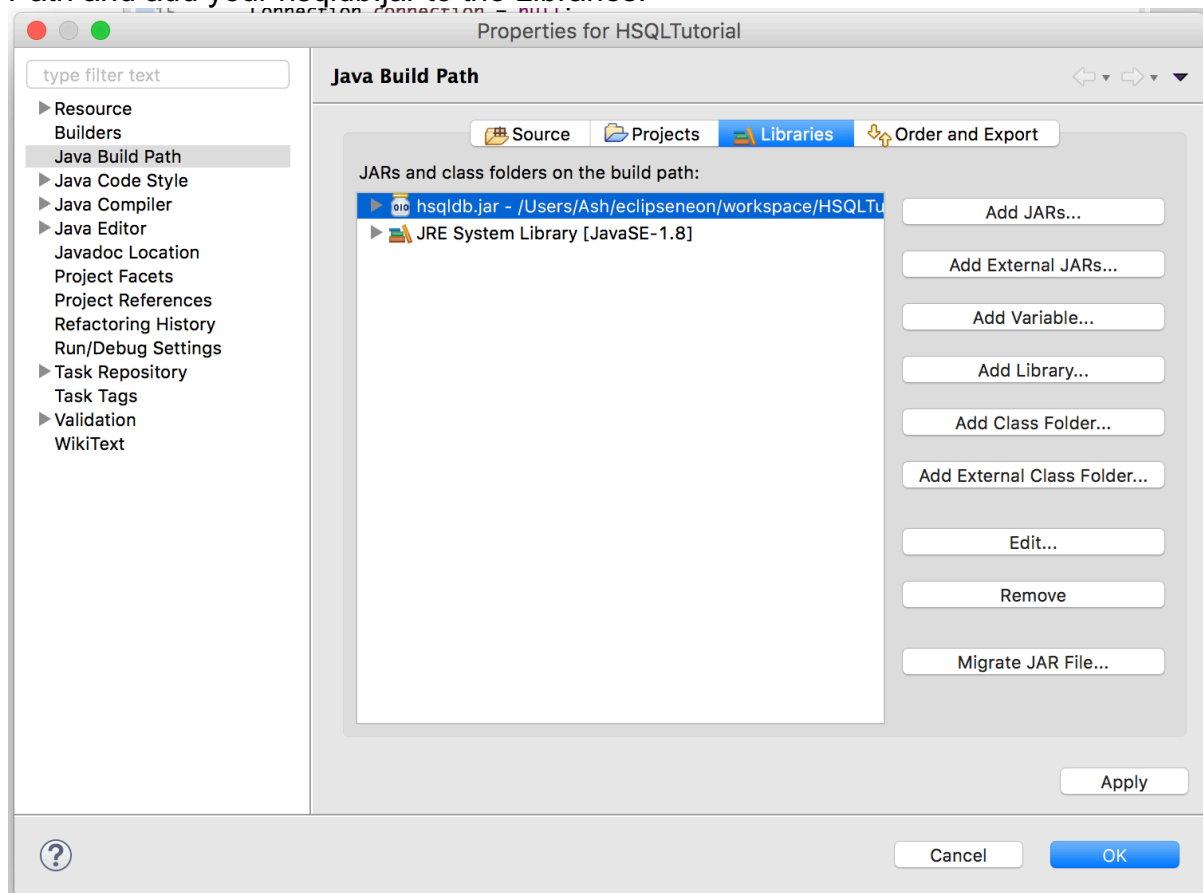
4- Copy below code into your class:
"

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import org.hsqldb.Server;

public class DBTest {


    public static void main(String[] args) {
        Server hsqlServer = null;
        Connection connection = null;
        ResultSet rs = null;

        hsqlServer = new Server();
        hsqlServer.setLogWriter(null);
        hsqlServer.setSilent(true);
        hsqlServer.setDatabaseName(0, "TestDB");
        hsqlServer.setDatabasePath(0, "file:MYDB");

        hsqlServer.start();

        // making a connection
        try {
            Class.forName("org.hsqldb.jdbcDriver");
            connection =
DriverManager.getConnection("jdbc:hsqldb:TestDB", "sa", "123");


            connection.prepareStatement("drop table barcodes if
exists;").execute();
            connection.prepareStatement("create table barcodes
(id integer, barcode varchar(20) not null);").execute();
            connection.prepareStatement("insert into barcodes
(id, barcode)"
                        + "values (1, '12345577');").execute();
//
//          // query from the db
            rs = connection.prepareStatement("select id,
barcode   from barcodes;").executeQuery();
            rs.next();
            System.out.println(String.format("ID: %1d, Name:
```
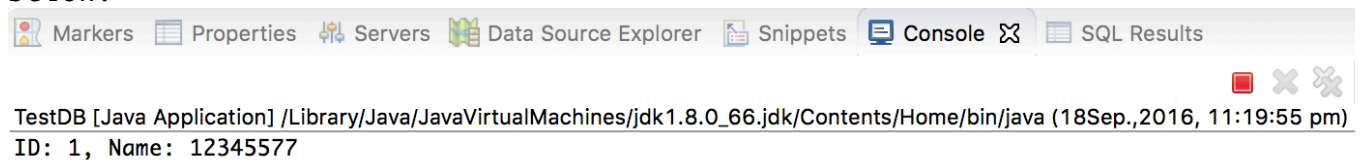
```
%1s", rs.getInt(1), rs.getString(2)));
                connection.commit();
        } catch (SQLException e2) {
            e2.printStackTrace();
        } catch (ClassNotFoundException e2) {
            e2.printStackTrace();
        }


        // end of stub code for in/out stub
    }
}
"
```

6- Now run the application, you to see your output in console as below:

If you prefer to use SQLite, then you have to download sqlite-jdbc-3.8.11.2.jar and add to your project and project build path, then change the database name and follow as above.