Report (Laporan)

Jaspersoft Studio

- Menggunakan Jaspersoft Studio, Anda dapat mengakses berbagai jenis sumber data, termasuk data besar, CSV, Hibernate, Jaspersoft Domain, JavaBeans, JDBC, JSON, NoSQL, Tautan Informasi TIBCO Spotfire®, XML, atau sumber data kustom Anda sendiri

Jaspersoft Studio

◇ Download Jasper di : https://community.jaspersoft.com/project/jaspersoft-studio

Jaspersoft Studio

◇ Install

◇ Jalankan TIBCO Jaspersoft Studio
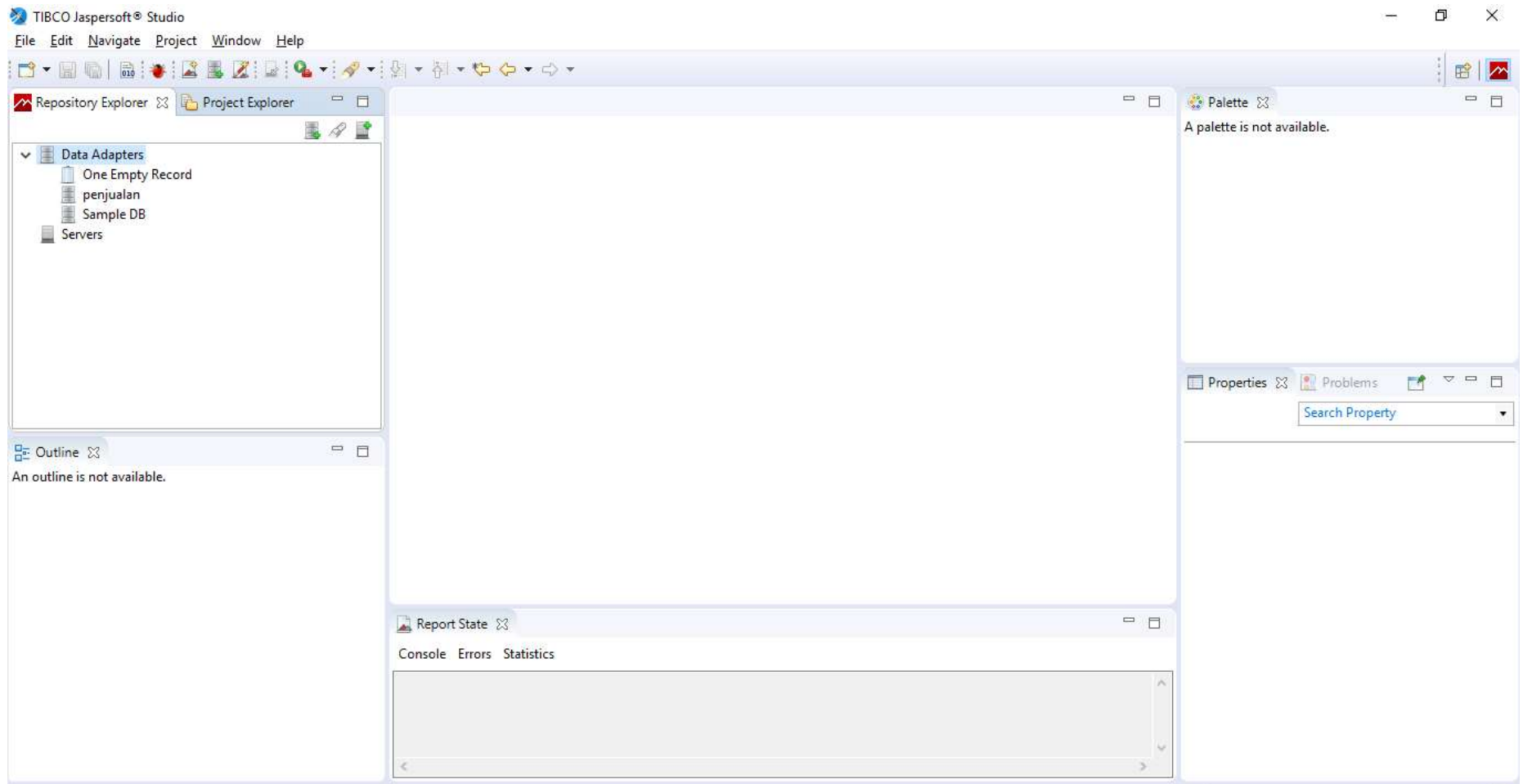
Jaspersoft Studio

- Buat Data Adapater :

- Klik kanan data Adapter -> Create Data Adapter
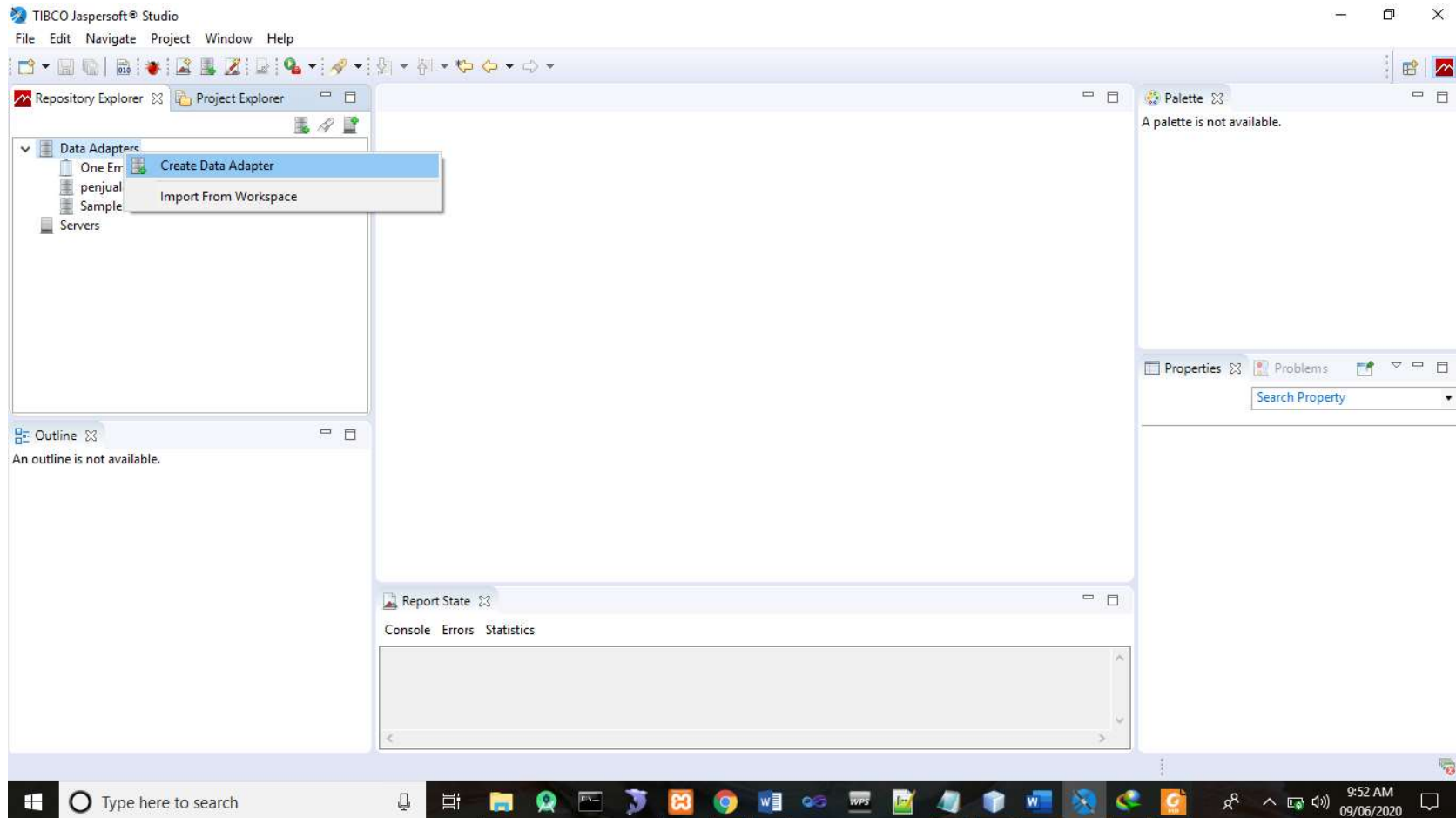
Jaspersoft Studio

- Pilih Database JDBC Connection
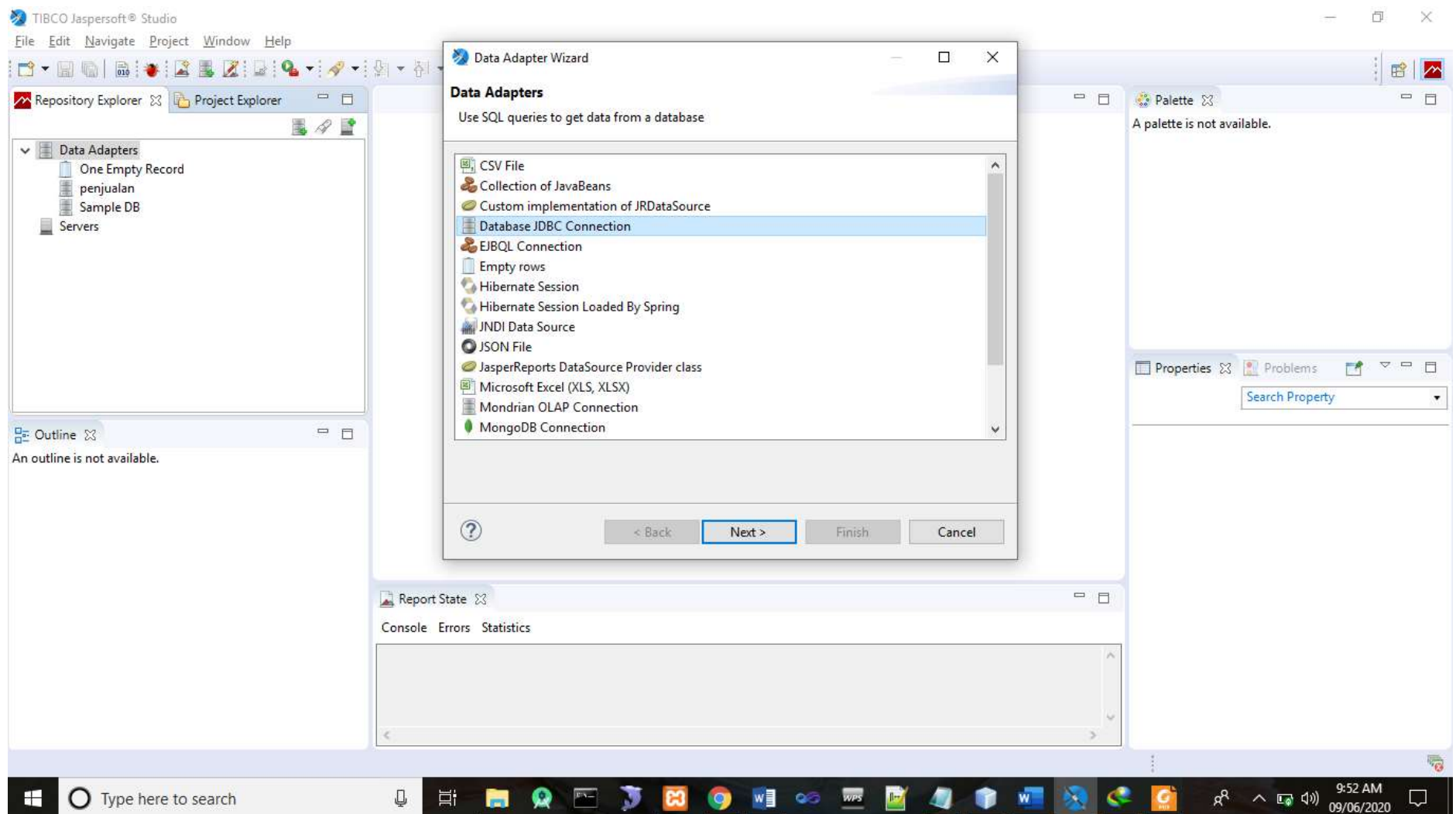
Jaspersoft Studio

- Buat konfigurasi :
- Name   : penjualan
- JDBC Driver   : pilih MySQL
- JDBC URL   : jdbc:mysql/localhost/penjualan
- Username   : root
- Password   :
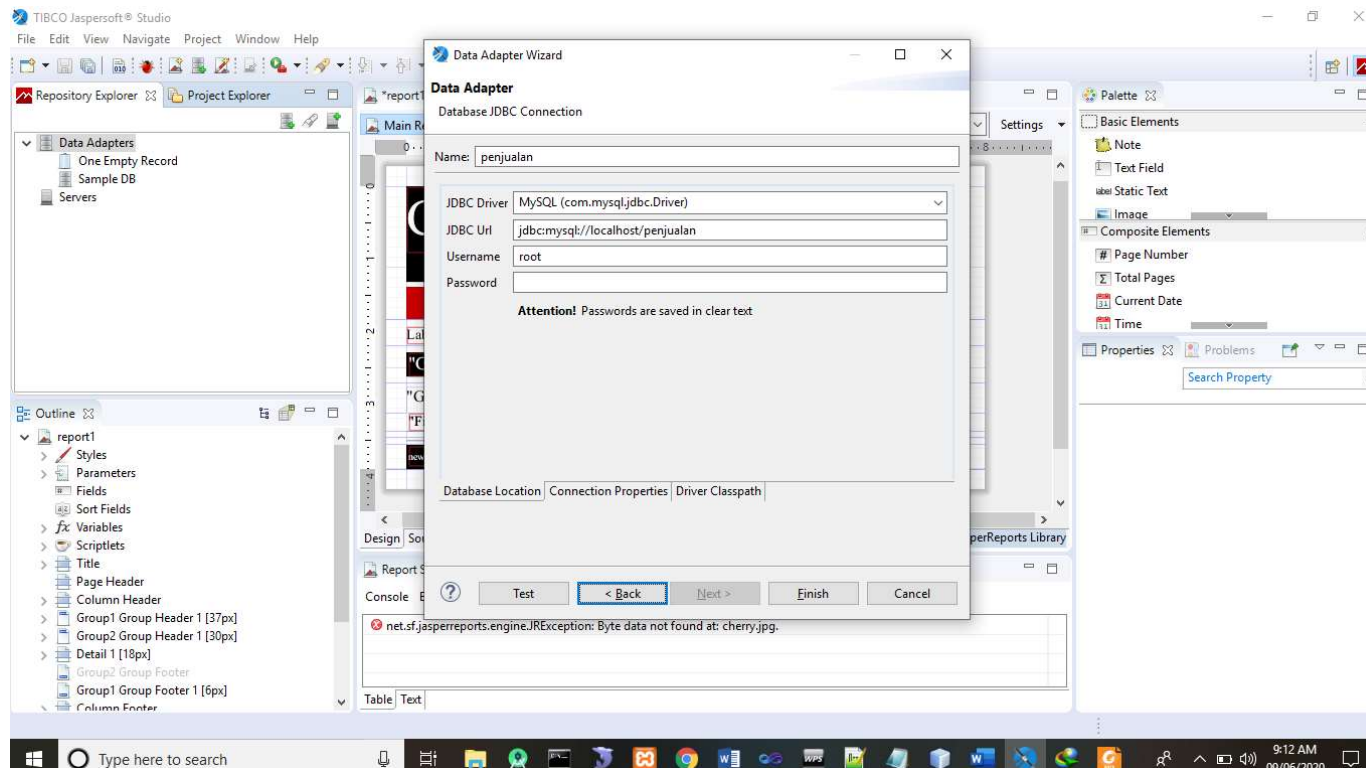
Jaspersoft Studio

- Klik Driver Classpath→Add →File mysql-connector dapat di download di https://repo1.maven.org/maven2/mysql/mysql-connector-java/5.1.45/
  - ◇ https://repo1.maven.org/maven2/mysql/mysql-connector-java/8.0.17/
  - ◇ https://jar-download.com/artifacts/mysql/mysql-connector-java/8.0.17/source-code
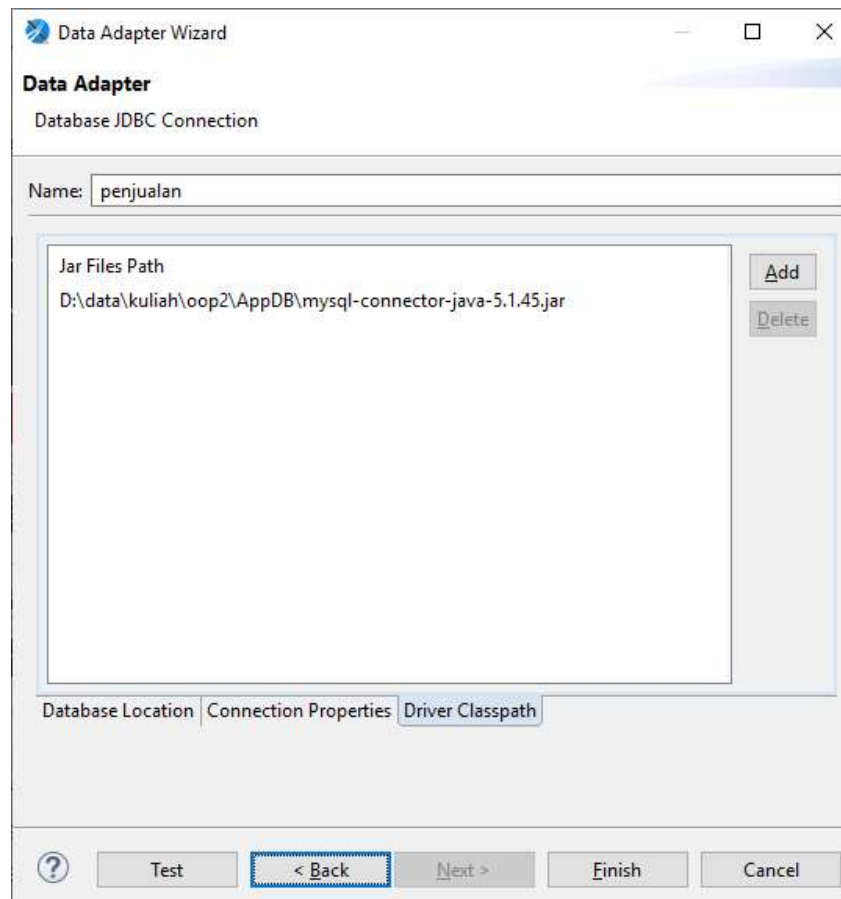
Jaspersoft Studio

- Membuat Report baru, klik menu File→New→Jasper Report
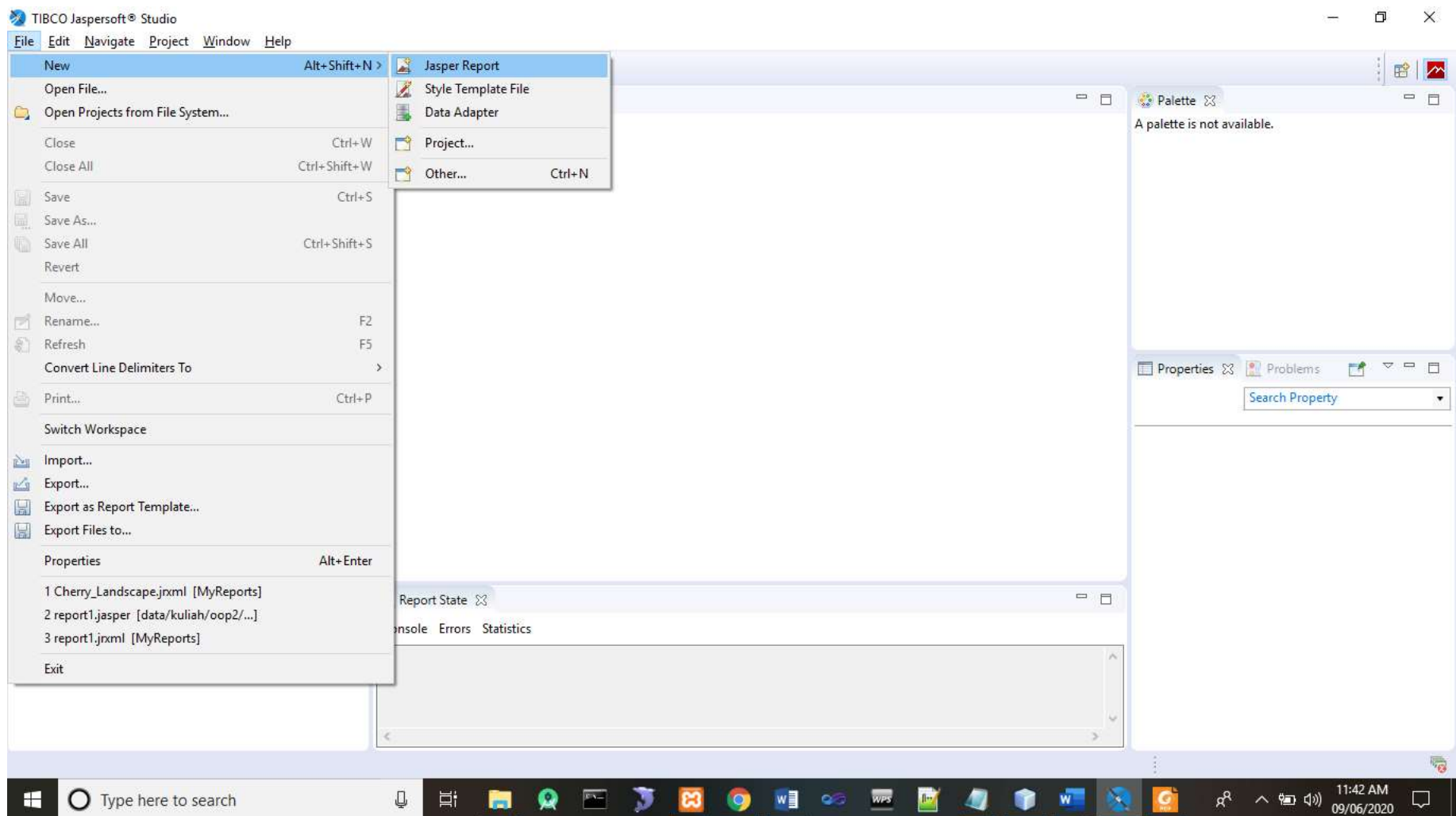
Jaspersoft Studio

- Pilih Template, missal : Cherry Landscape
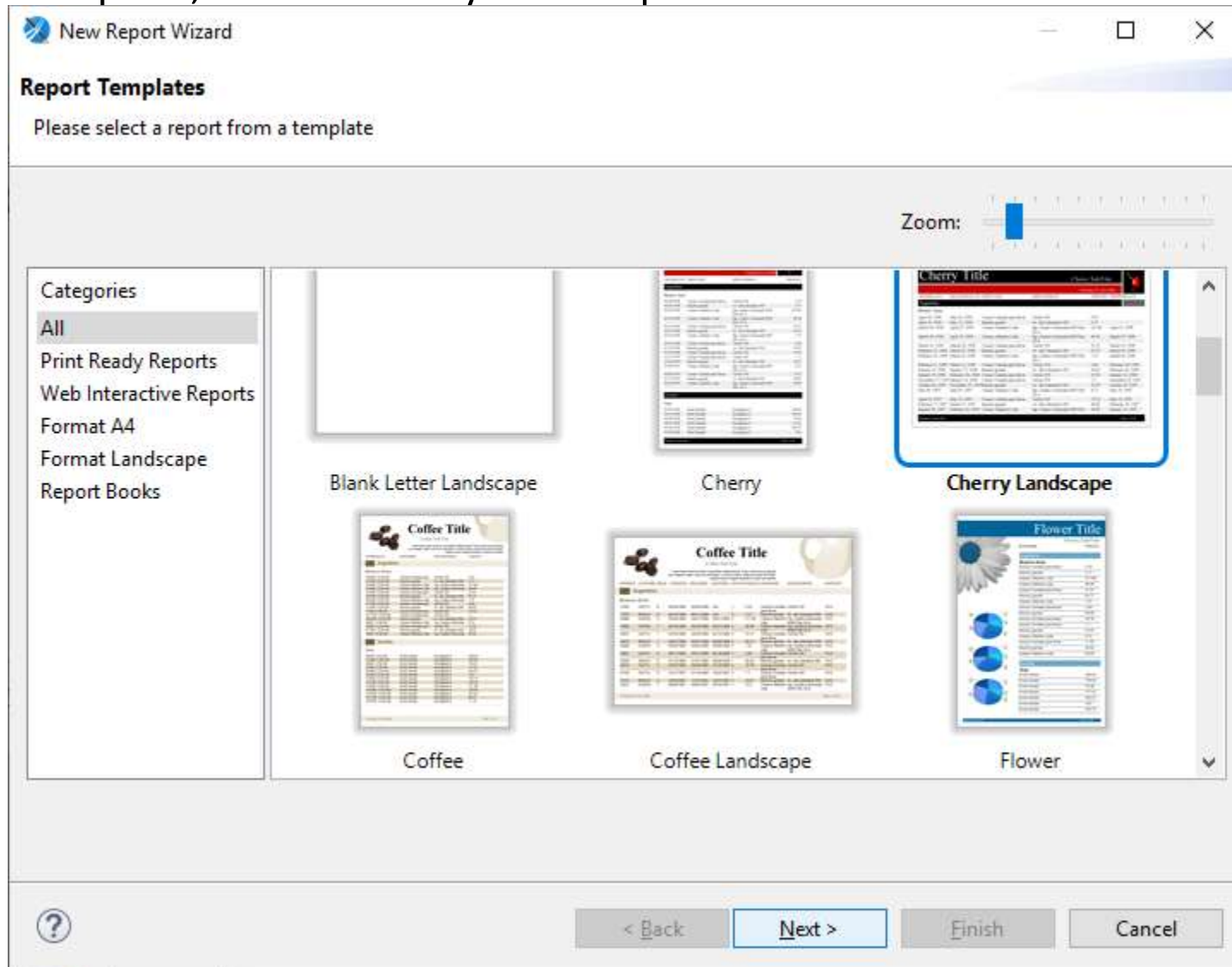
Jaspersoft Studio

- Klik Next, pilih lokasi penyimpanan & nama file
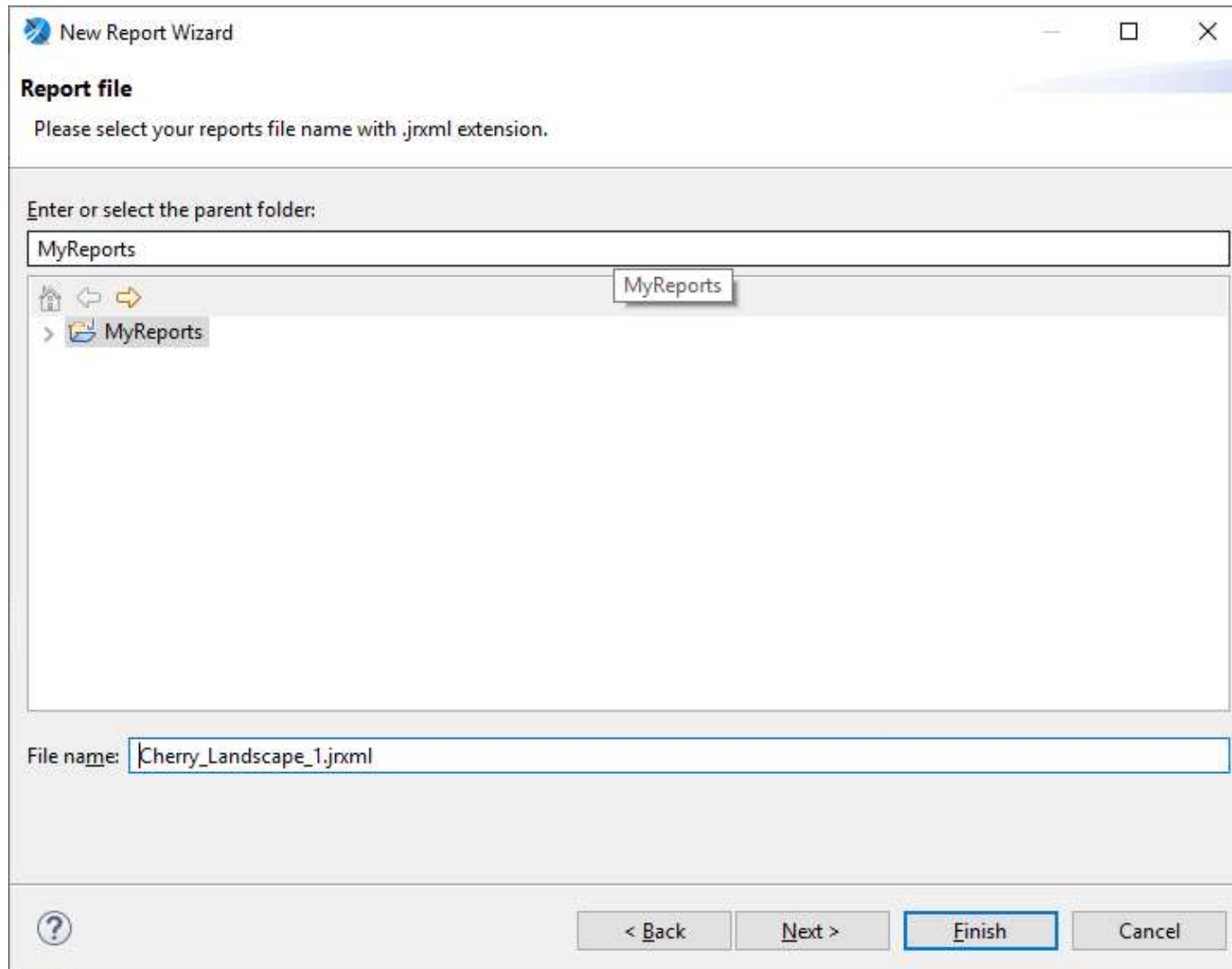
Jaspersoft Studio

- Pilih koneksi yang sudah dibuat
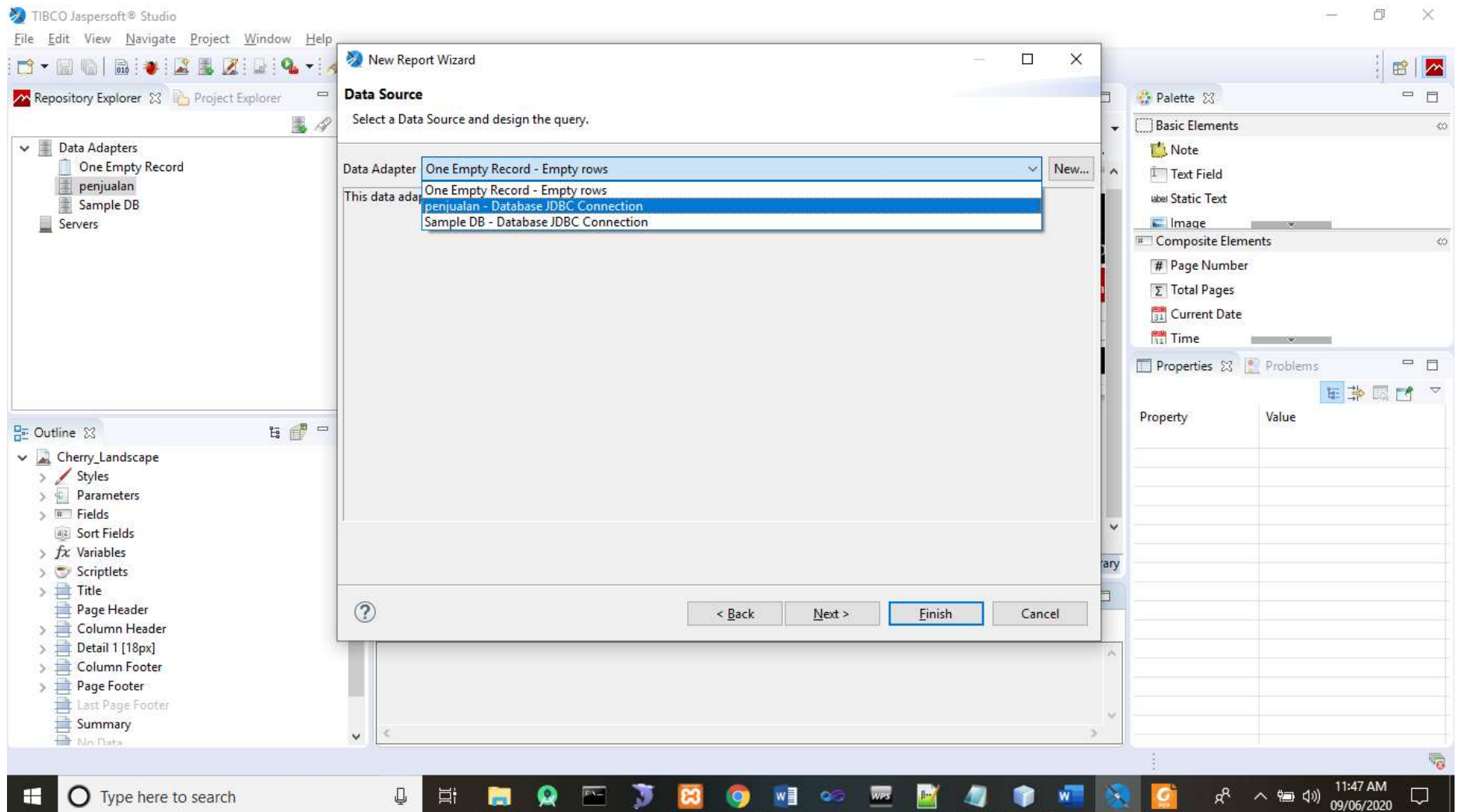
Jaspersoft Studio

- Klik Finish, pilih database & tabel yang dibuat laporan, isikan query di area sebelah kanan di tabs Texts.
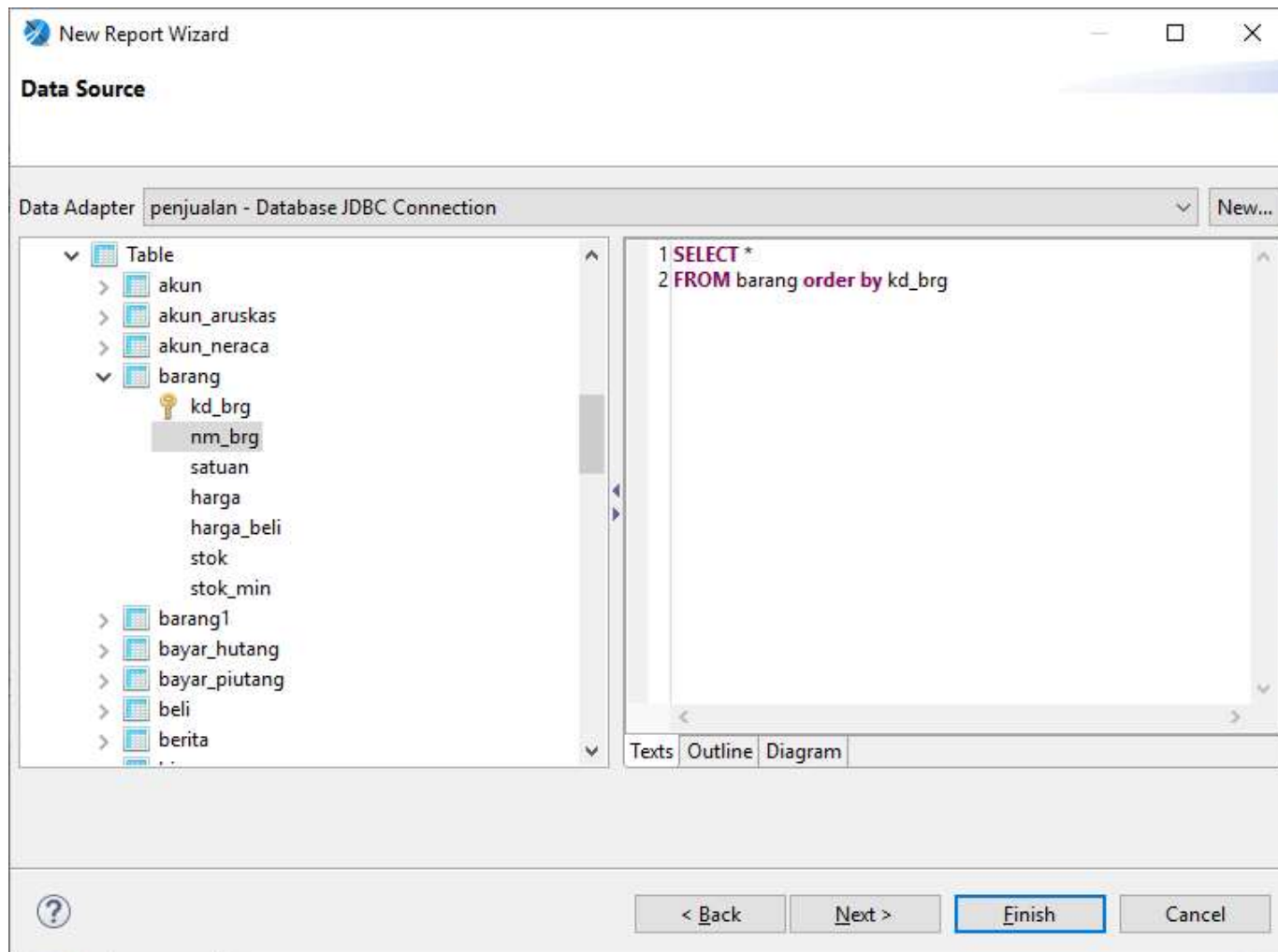
Jaspersoft Studio

- Klik Tabs Outline :
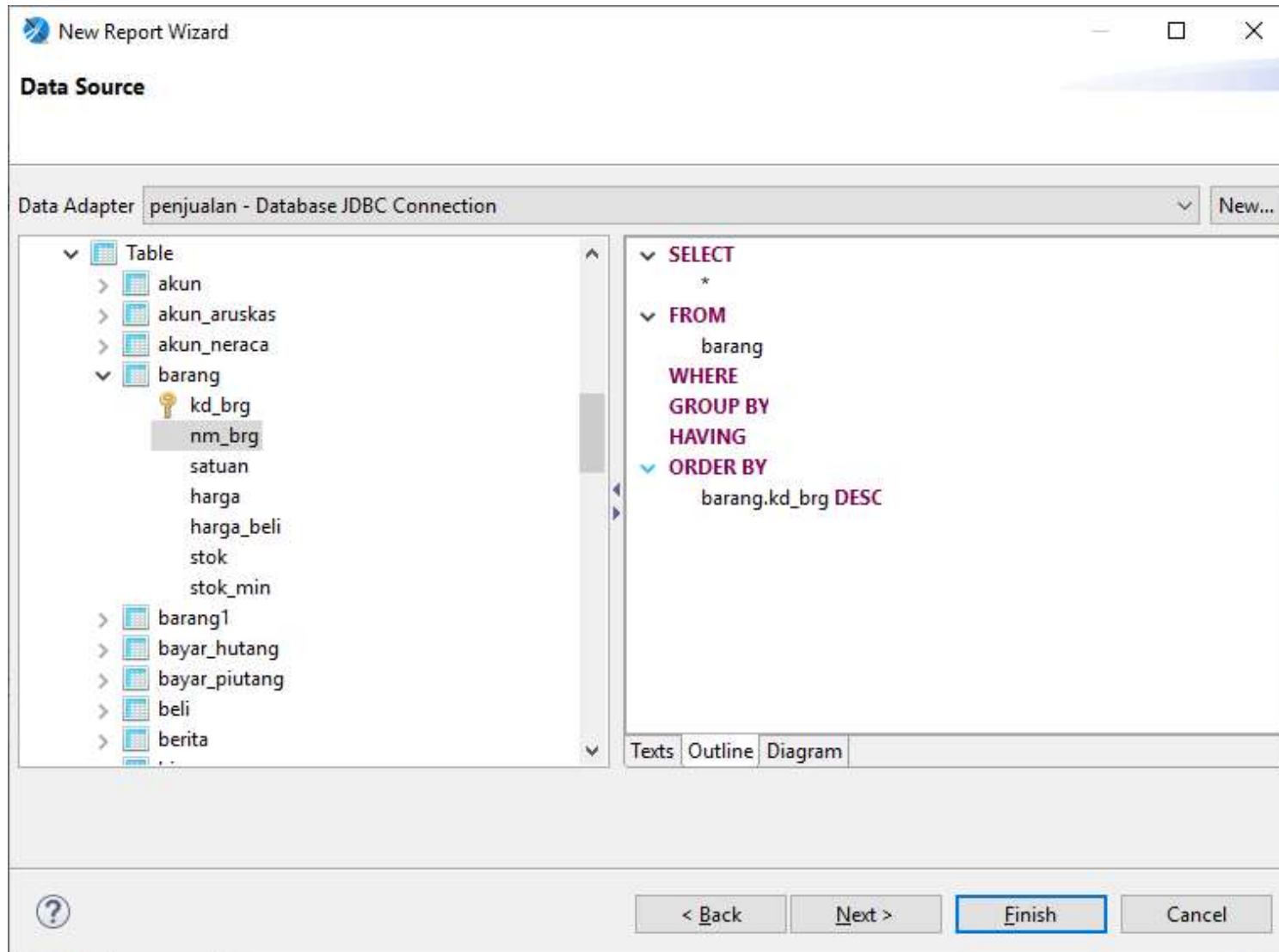
Jaspersoft Studio

- Klik Diagram untuk melihat diagram
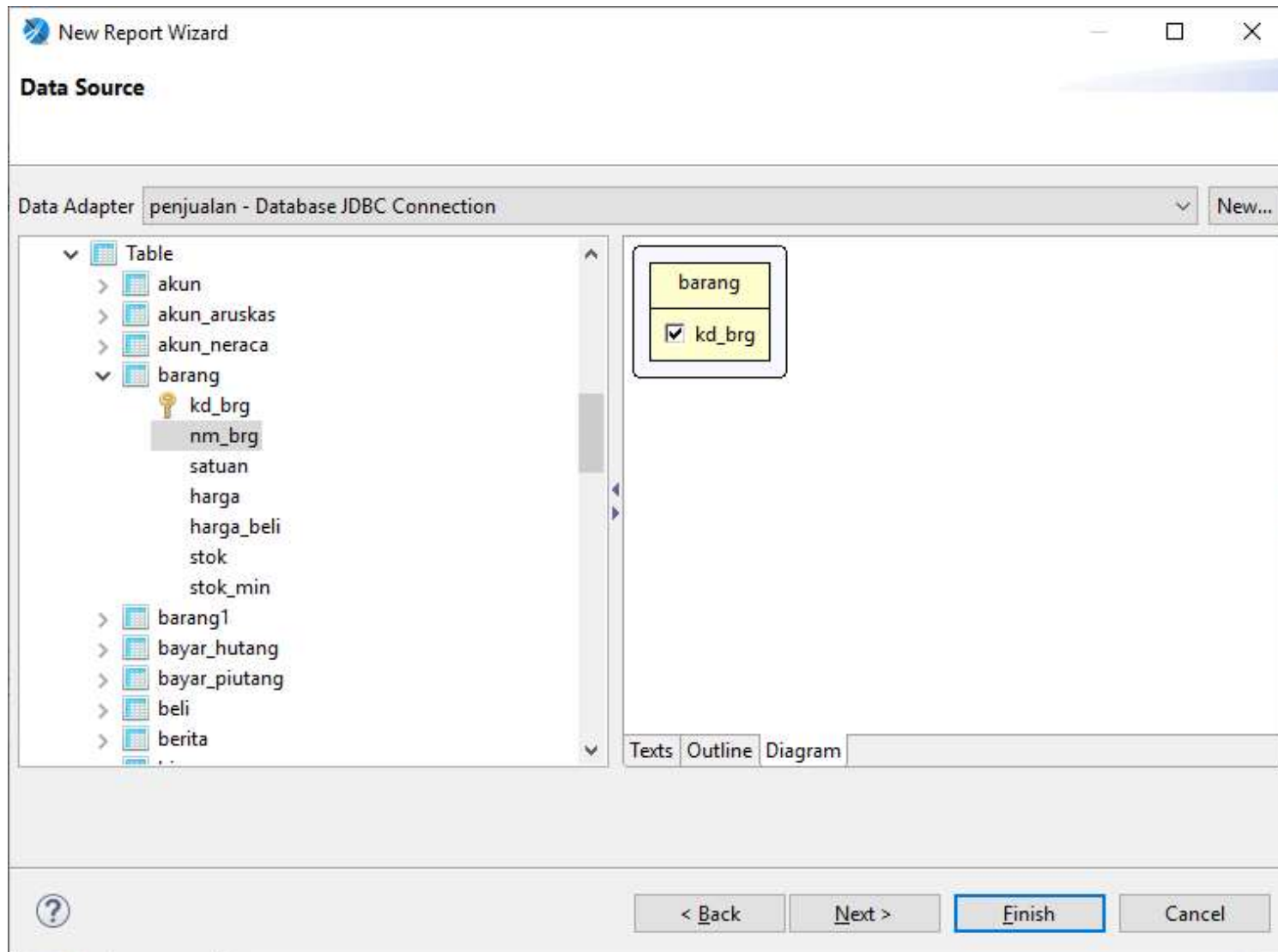
Jaspersoft Studio

- Klik Next, pindahkan fields yang dibuat laporan
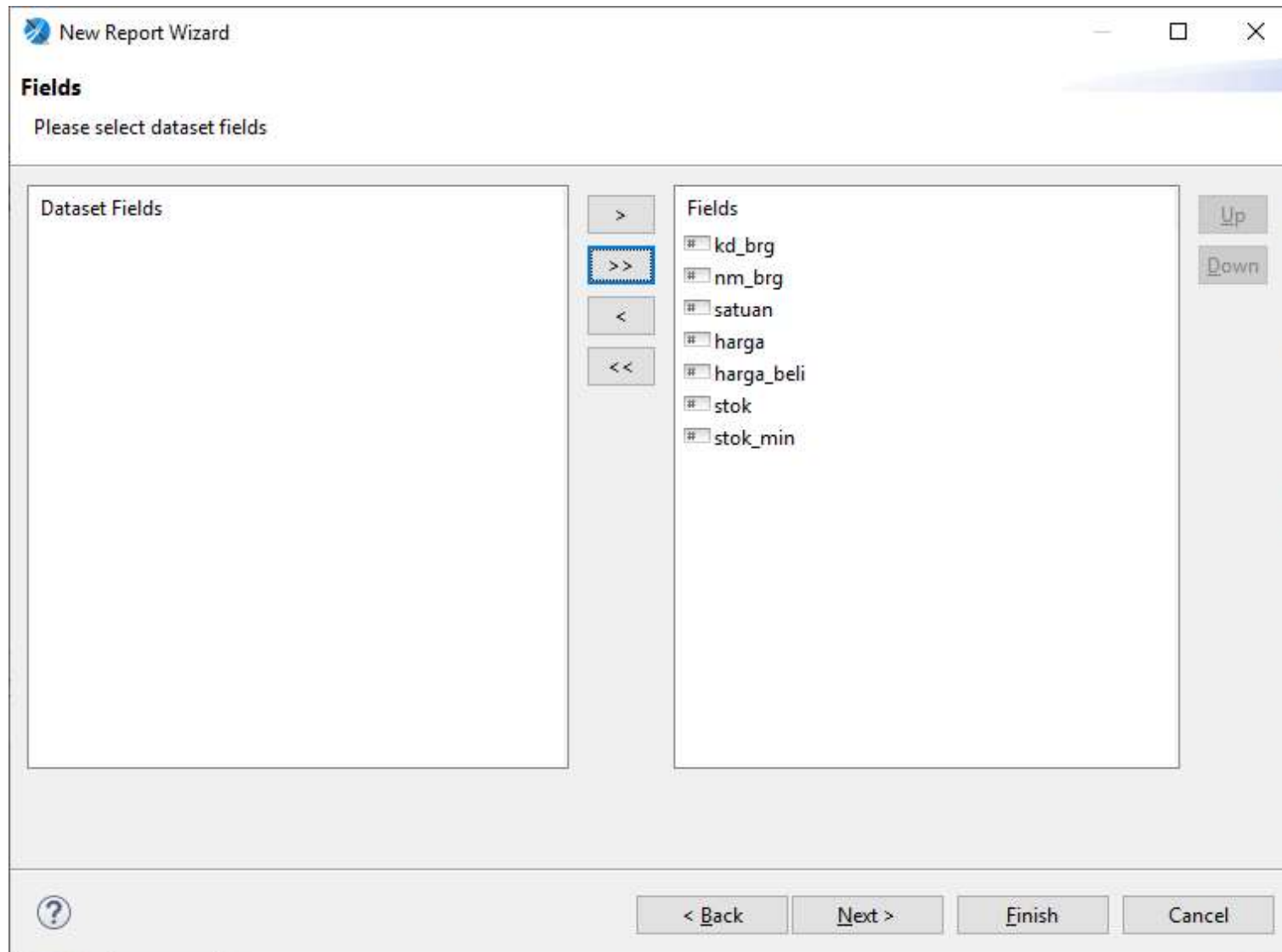
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- Klik Next, pilih Group laporan, kosongkan jika tidak ada Grup.

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- Klik Next.

Jaspersoft Studio

- Klik Finish, laporan sudah jadi
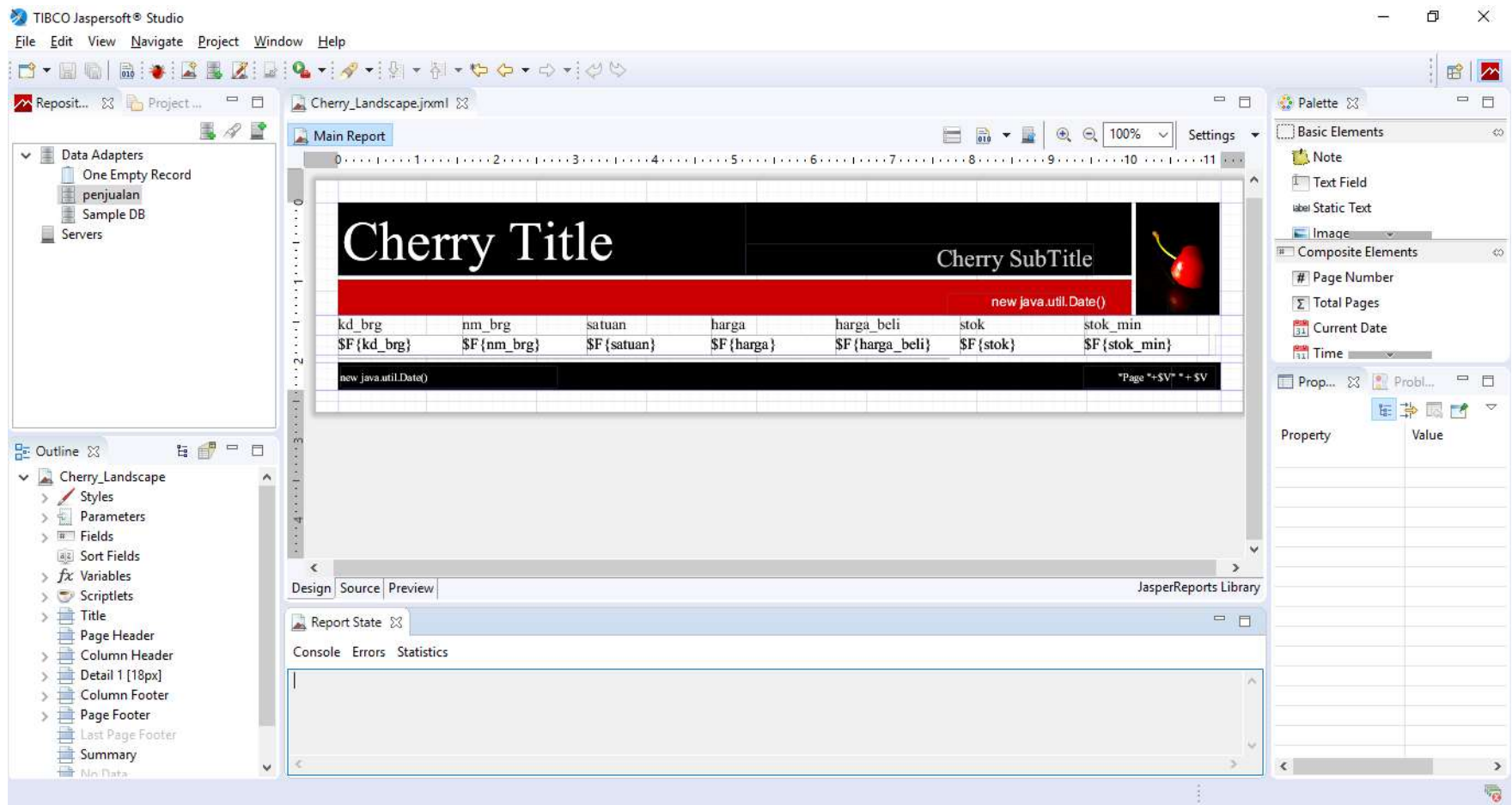
Jaspersoft Studio

- Klik Tab Source untuk melihat Code XML nya
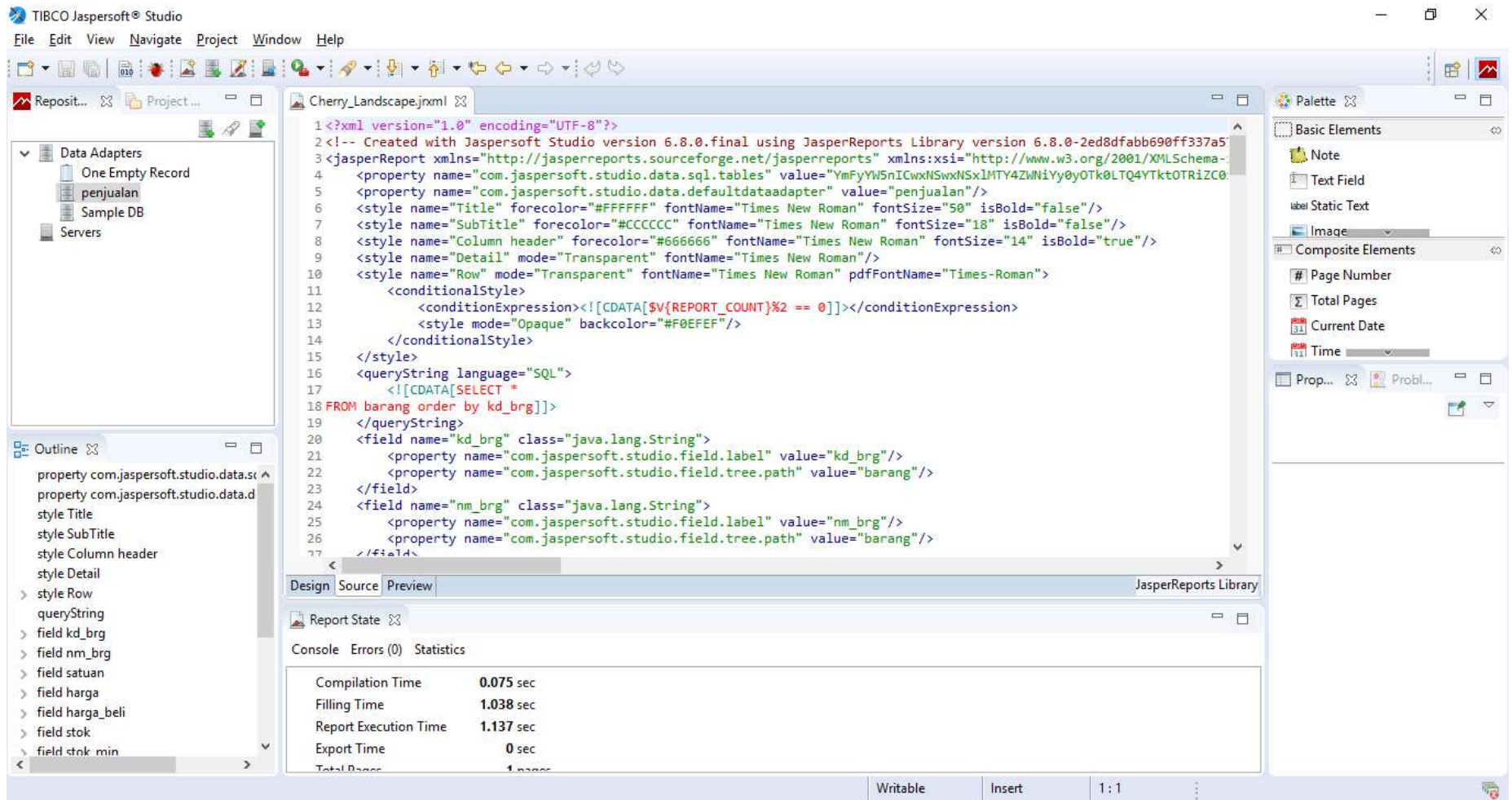
Jaspersoft Studio

- Untuk mengedit Laporan di Tab Design, misalkan mengganti judul dll.
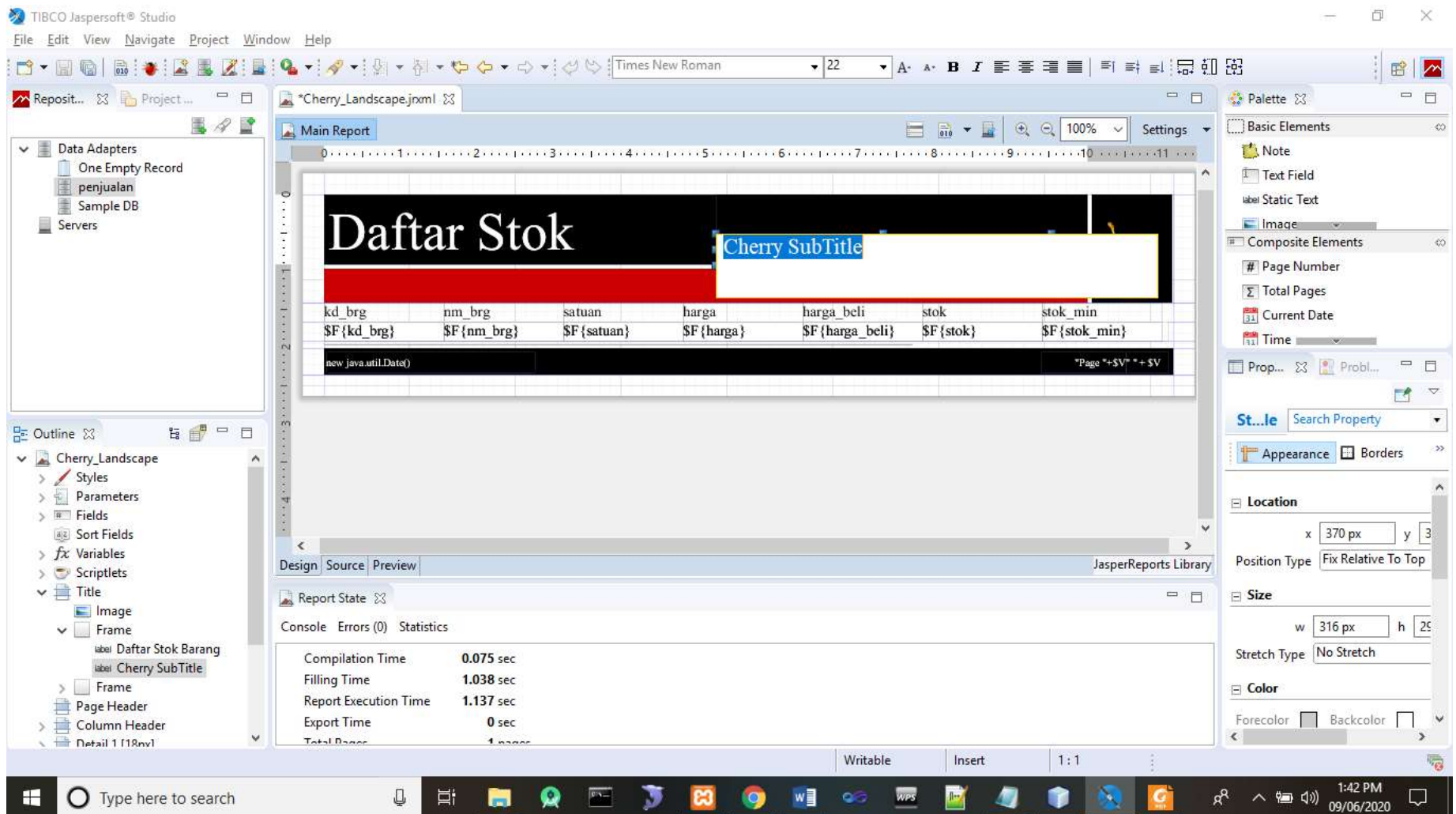
Jaspersoft Studio

- Klik Tab Preview untuk melihat hasil.

Memanggil Jasper Report di Java

- Buka project anda, di Libraries klik kanan Add Library.
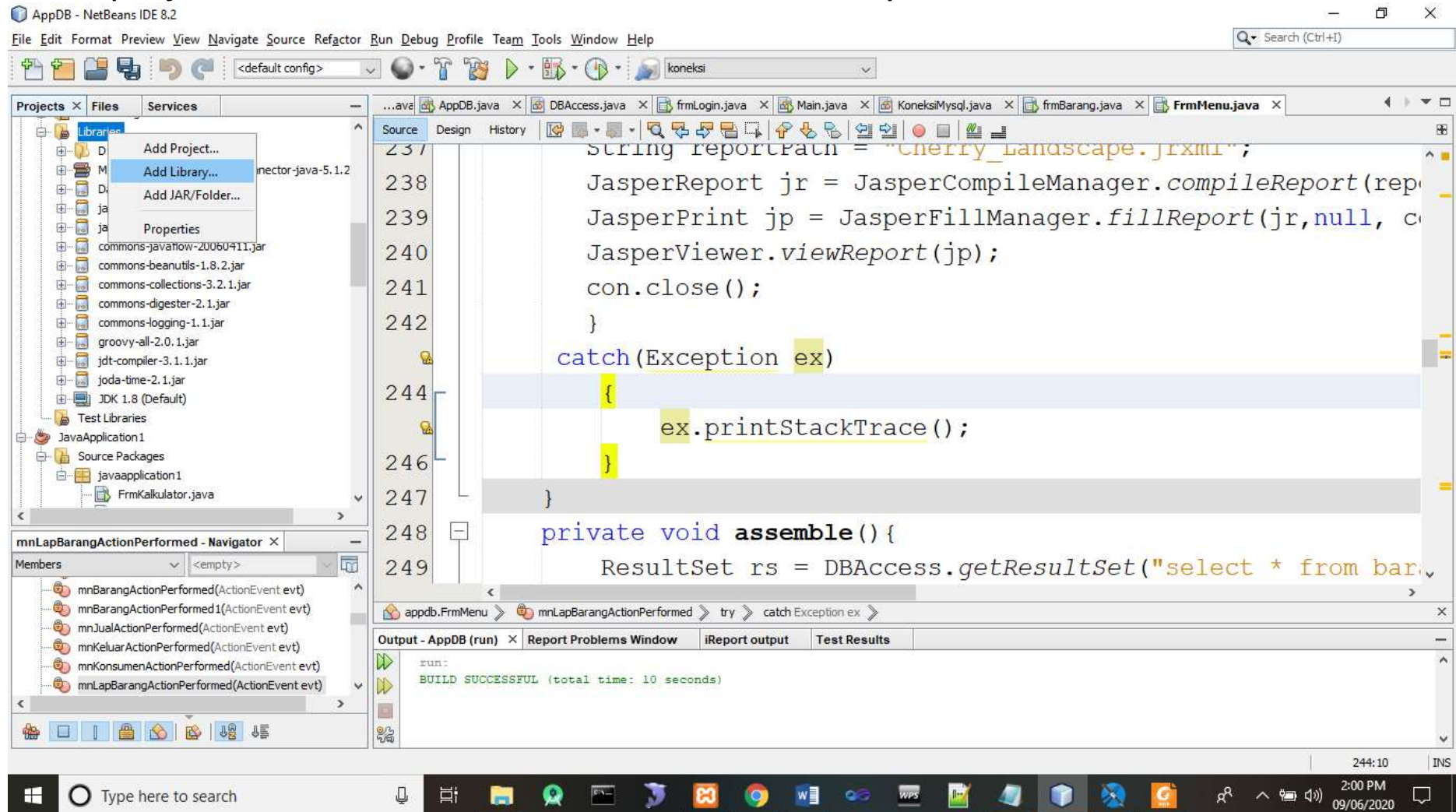
Memanggil Jasper Report di Java

- Tambahkan MySQL JDBC Driver seperti gambar berikut :
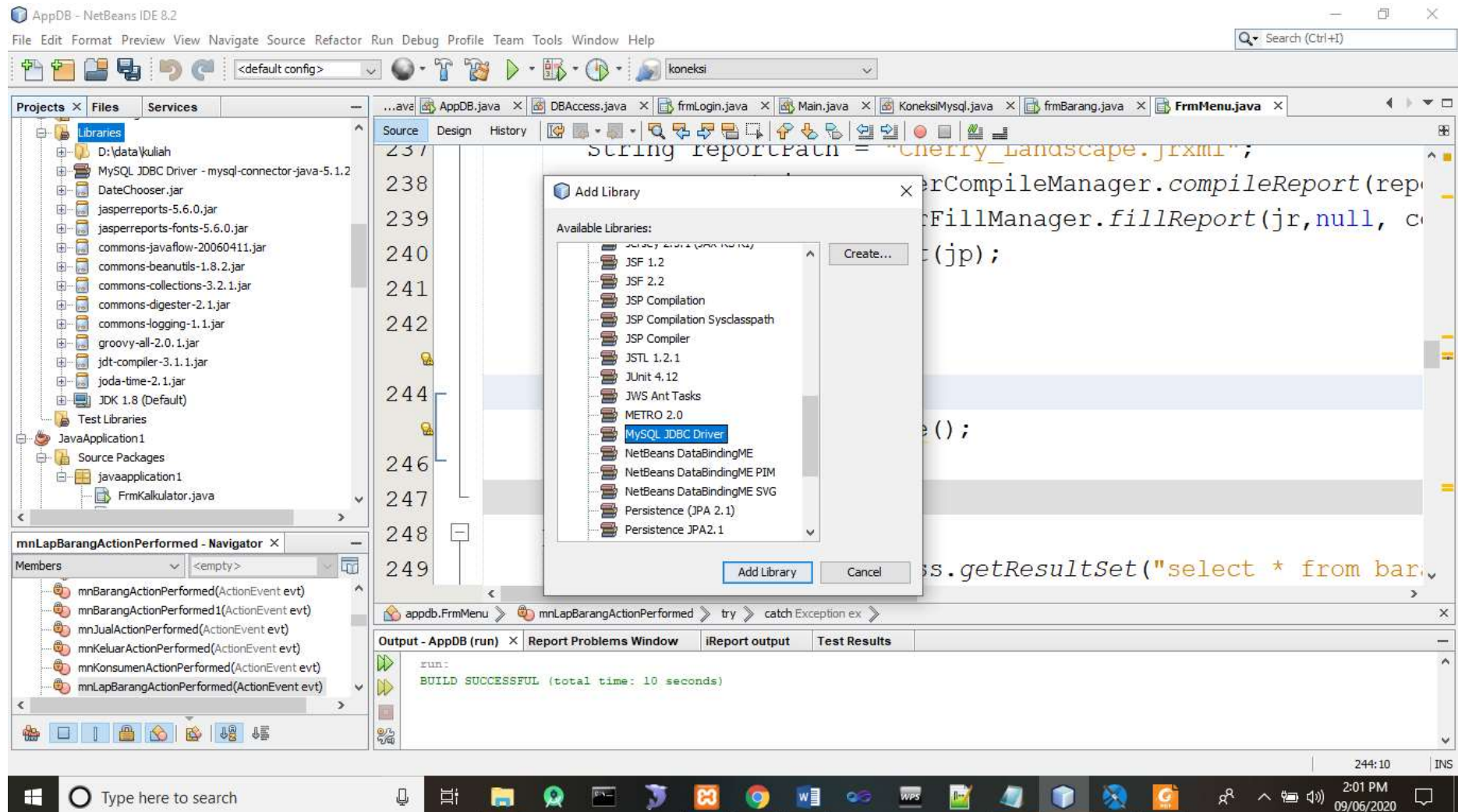
Memanggil Jasper Report di Java

- Tambahkan JAR file untuk menjalankan Jasper berikut ini :
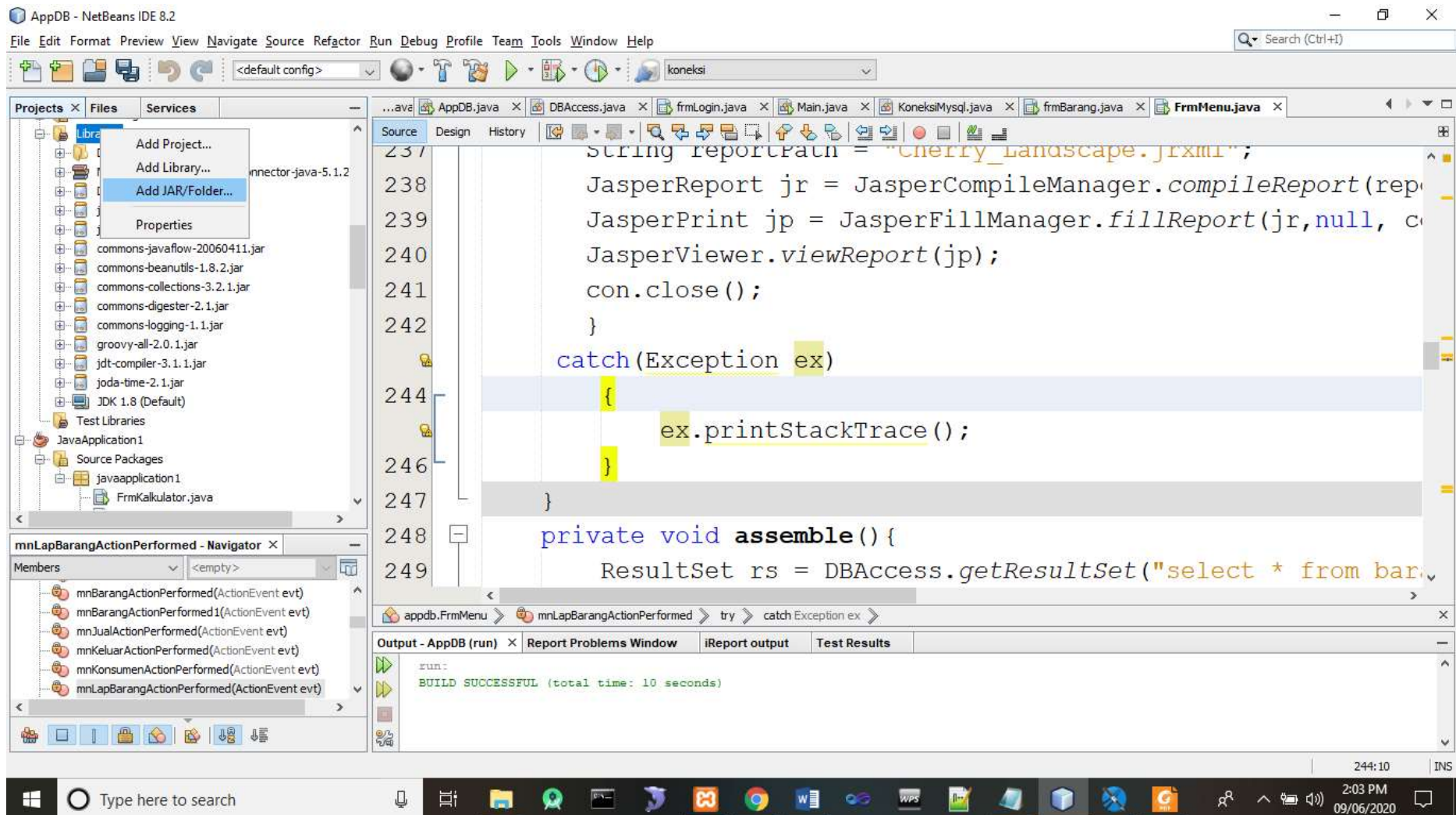
Memanggil Jasper Report di Java

- Add file JAR berikut :

  - `commons-beanutils-1.8.2.jar`
  - `commons-collections-3.2.1.jar`
  - `commons-digester-2.1.jar`
  - `commons-javaflow-20060411.jar`
  - `commons-logging-1.1.jar`
  - `groovy-all-2.0.1.jar`
  - `jasperreports-5.6.0.jar`
  - `jasperreports-fonts-5.6.0.jar`
  - `jdt-compiler-3.1.1.jar`
  - `joda-time-2.1.jar`

Memanggil Jasper Report di Java

- Dapat di download di Drive atau
https://drive.google.com/file/d/1YAGl5bJab5q8yGDBW2iPPZZJk9LJzntL/view?usp=sha
ring
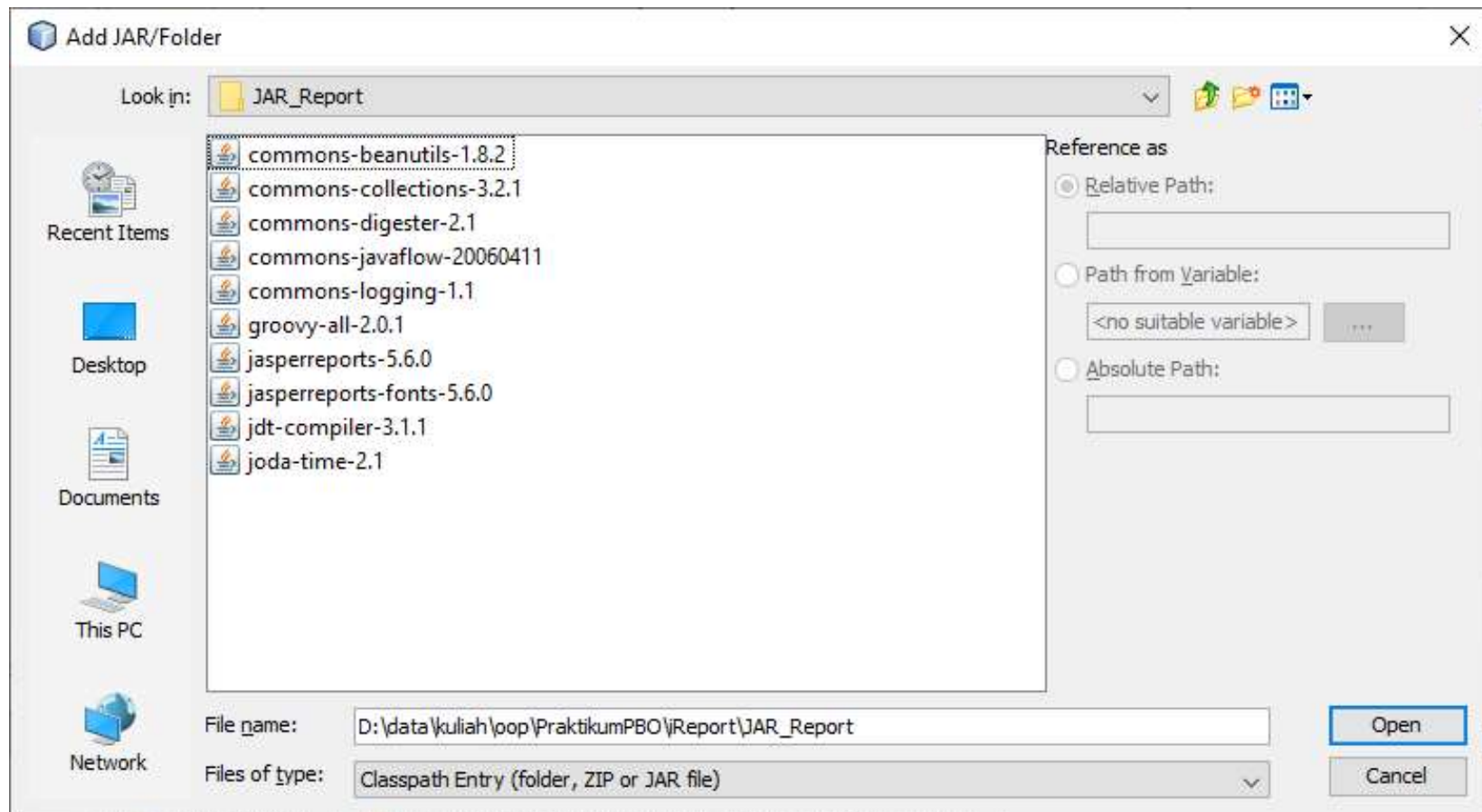
Memanggil Jasper Report di Java

- Buat Menu seperti berikut :
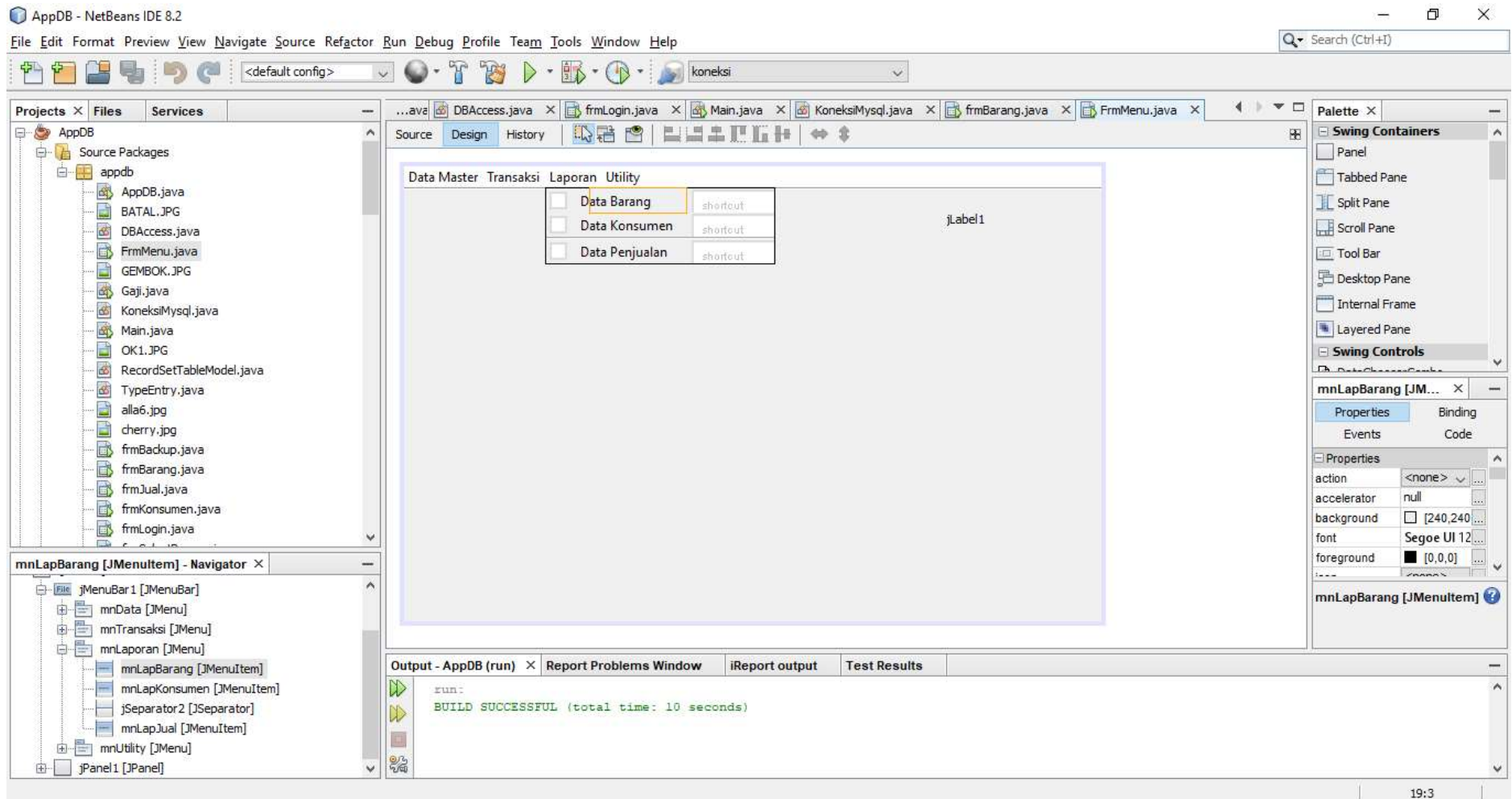
Memanggil Jasper Report di Java

- Klik di menu Laporan→ Data Barang, klik kanan :
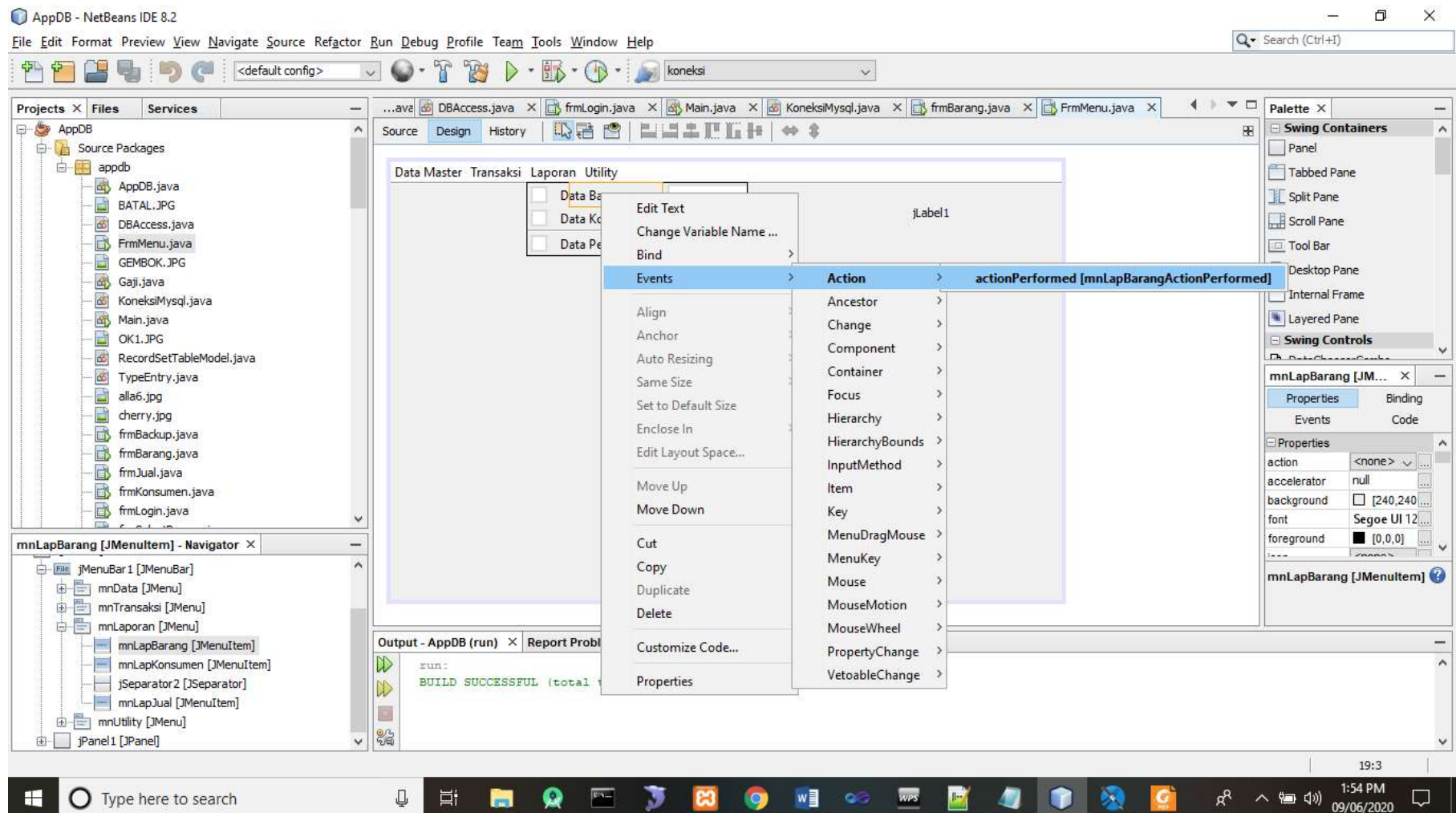
Memanggil Jasper Report di Java

- Tambahkan code berikut :

```java
private void mnLapBarangActionPerformed(java.awt.event.ActionEvent evt) {
    try{
        Class.forName("com.mysql.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/penjualan","root",
"");
        String reportPath = "Cherry_Landscape.jrxml";
        JasperReport jr = JasperCompileManager.compileReport(reportPath);
        JasperPrint jp = JasperFillManager.fillReport(jr,null, con);
        JasperViewer.viewReport(jp);
        con.close();
        }
    catch(Exception ex)
        {
            ex.printStackTrace();
        }
    }
```

Memanggil Jasper Report di Java

- Tambahkan Code di bawah Package :

```
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.engine.JasperCompileManager;
import net.sf.jasperreports.view.JasperViewer;
```

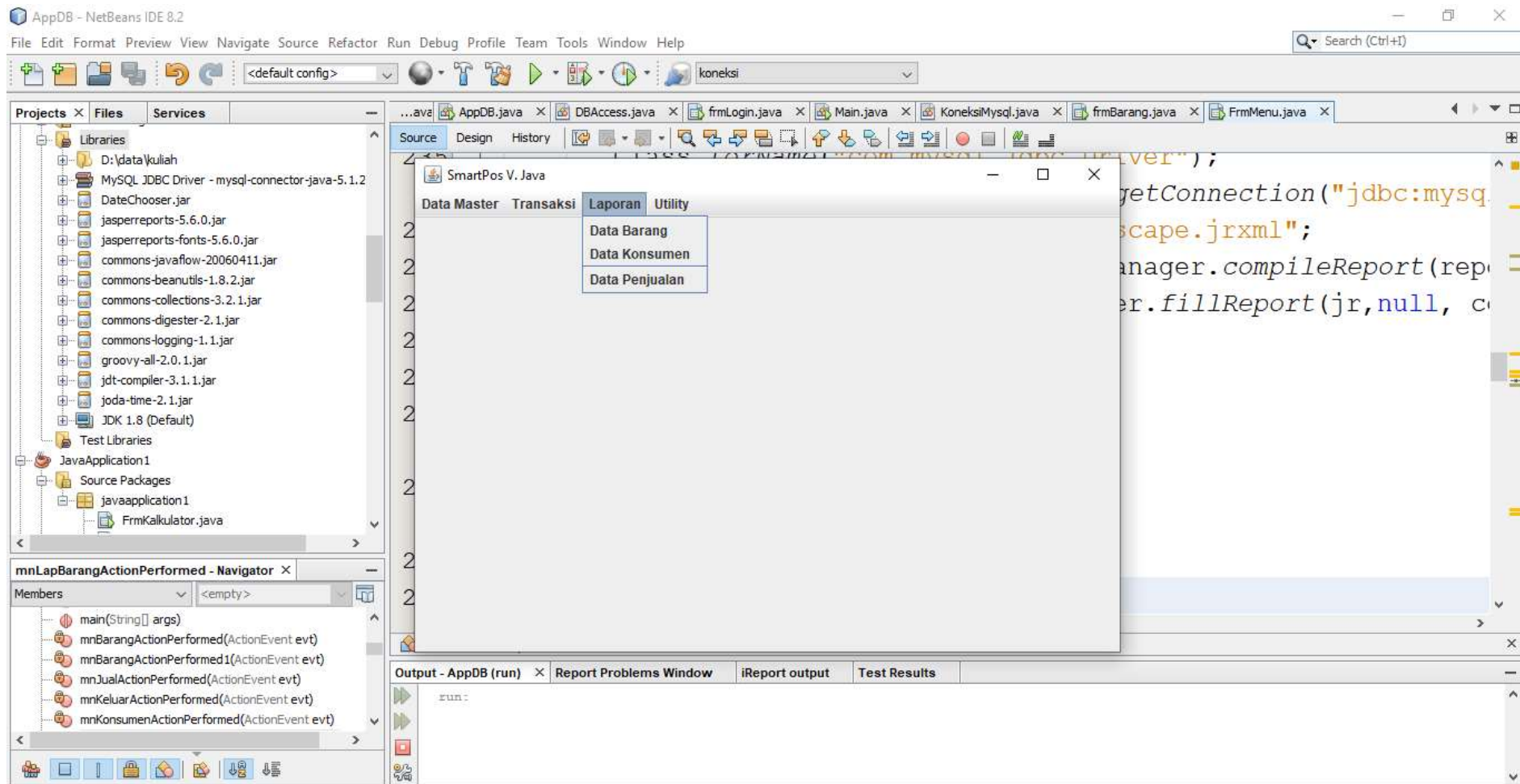# Memanggil Jasper Report di Java

- Jalankan, klik kanan → Run File

Memanggil Jasper Report di Java

- Hasilnya

Memanggil Jasper Report di Java

- Hasilnya

Memanggil Jasper Report di Java

- Menggunakan Browser

```
try{
   Desktop.getDesktop().browse(new
URL("file:///D:/data/kuliah/oop2/AppDB/Cherry_Landscape.html").toURI());
   }catch(Exception ex){
      System.out.println(ex);
}
```

Laporan Export ke Excel

- Buat Form

Laporan Export ke Excel

- Code Class ExportToExcel

```java
package penjualan;

import java.io.File;
import java.io.FileWriter;
import javax.swing.JTable;
import javax.swing.table.TableModel;

/**
 *
 * @author a71b
 */
public class ExportToExcel {
    public ExportToExcel(JTable table, File file) {
        try{
            TableModel tableModel = table.getModel();
            FileWriter fOut = new FileWriter(file);
            for(int  i  =  0;  i  <  tableModel.getColumnCount();
i++){
                fOut.write(tableModel.getColumnName(i)+"\t");
            }
            fOut.write("\n");
```
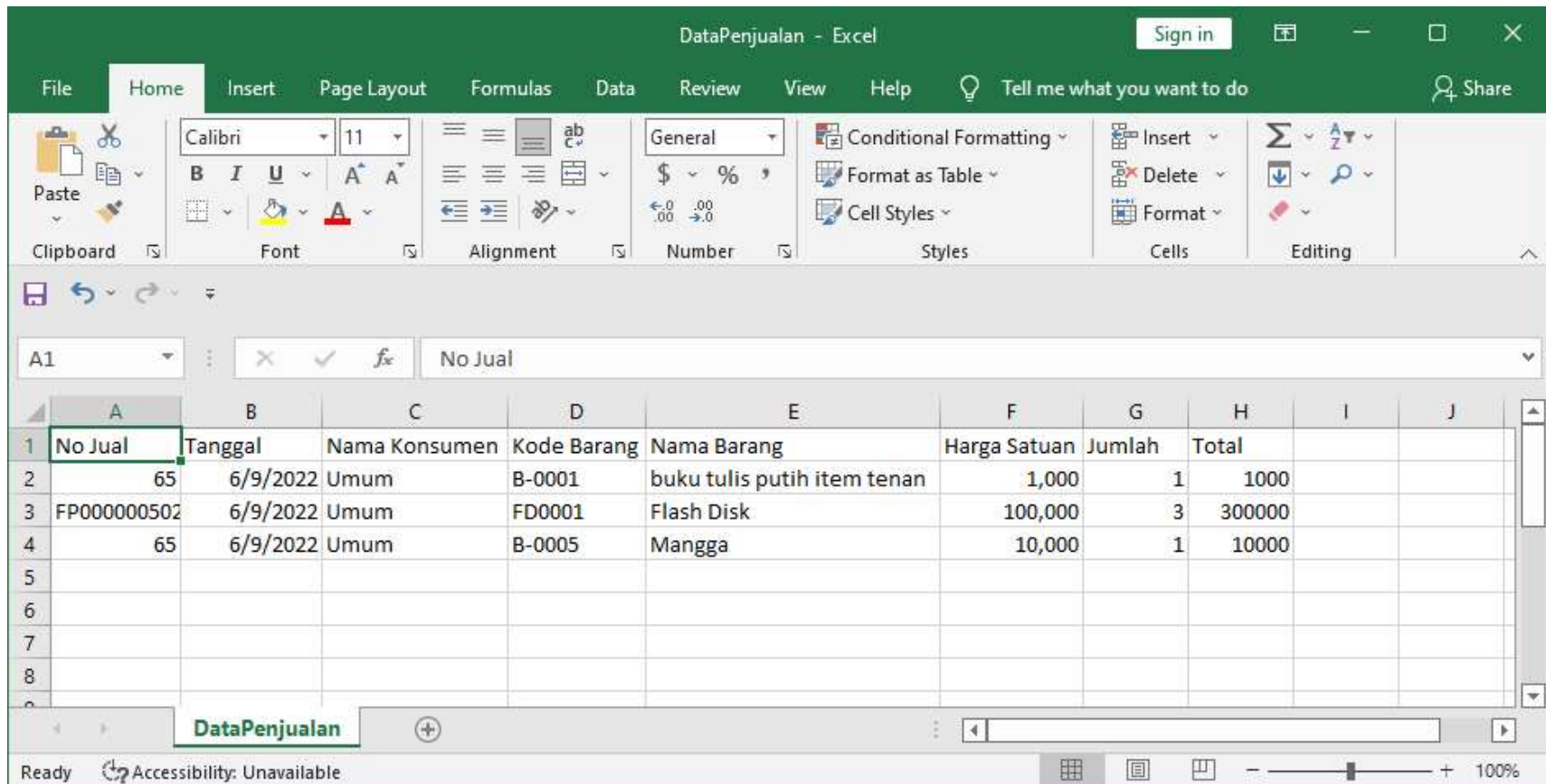
Laporan Export ke Excel

- Code Class ExportToExcel

```
for(int i = 0; i < tableModel.getRowCount(); i++){
    for(int j = 0; j < tableModel.getColumnCount(); j++){
        fOut.write(tableModel.getValueAt(i, j).toString()+"\t");
    }
    fOut.write("\n");
}
fOut.close();
} catch (Exception e){
    e.printStackTrace();
}
}
}
```

Laporan Export ke Excel

- Membuat obyek Export ke Excel

```
ExportToExcel ex=new ExportToExcel(tblLapJual, new
File("DataPenjualan.xls"));
```

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Referensi

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  https://docs.oracle.com/javase/tutorial/ , Oracle, 2022.

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  https://docs.oracle.com/en/java/javase/index.html

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