



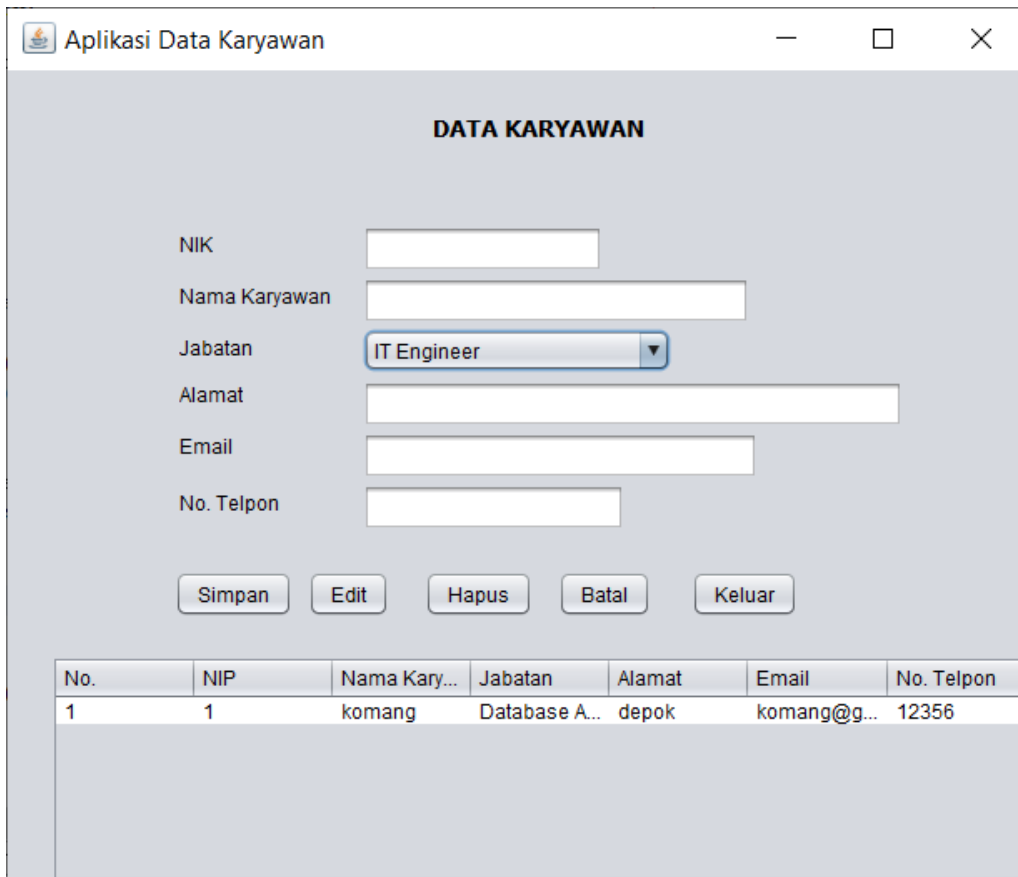
# TEKNIK PELAPORAN PADA APLIKASI DESKTOP



I Komang Setia Buana

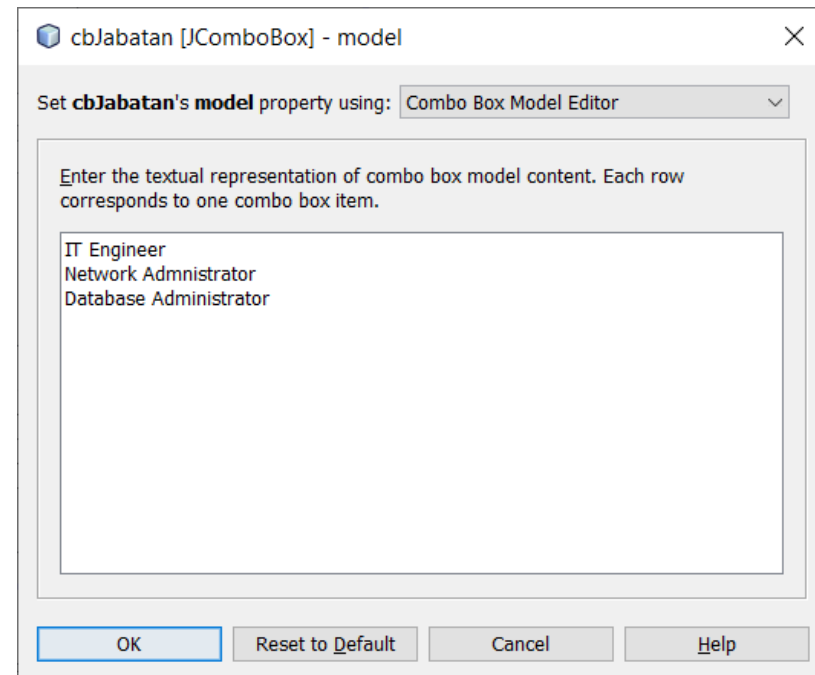
# Latihan

- Buat program CRUD (Create, Read, Update, Delete) dengan tampilan seperti berikut



The screenshot shows a Java Swing window titled "Aplikasi Data Karyawan". Inside, there's a section titled "DATA KARYAWAN" with a form for entering employee details. The form includes text fields for NIK, Nama Karyawan, Alamat, Email, and No. Telpn, and a dropdown menu for Jabatan (Job Position) which currently shows "IT Engineer". Below the form are five buttons: "Simpan" (Save), "Edit", "Hapus" (Delete), "Batal" (Cancel), and "Keluar" (Exit). At the bottom of the window is a table with 7 columns: No., NIP, Nama Kary..., Jabatan, Alamat, Email, and No. Telpn. The first row contains the following data: 1, 1, komang, Database A..., depok, komang@g..., and 12356.

No.	NIP	Nama Kary...	Jabatan	Alamat	Email	No. Telpn
1	1	komang	Database A...	depok	komang@g...	12356



The screenshot shows a Java Swing dialog box titled "cbJabatan [JComboBox] - model". It is used to set the model for a JComboBox. The dialog has a label "Set cbJabatan's model property using:" followed by a dropdown menu set to "Combo Box Model Editor". Below this is a text area with the instruction: "Enter the textual representation of combo box model content. Each row corresponds to one combo box item." The text area contains three lines of text: "IT Engineer", "Network Administrator", and "Database Administrator". At the bottom of the dialog are four buttons: "OK", "Reset to Default", "Cancel", and "Help".

# Pendahuluan

- Pembuatan report dalam java dengan **JasperReport** dan **iReport**

- **JasperReports**

Merupakan aplikasi berbasis open source yang digunakan untuk membuat report atau laporan pada pemrograman java. JasperReport selain digunakan untuk melakukan cetak atau printing juga memiliki keluaran laporan dalam berbagai format, seperti : Microsoft Excel, CSV, PDF, RTF, ODC, HTML dan XML.

JasperReport dapat digunakan pada Java Desktop (Java Swing) maupun Java Web (J2EE).

- **iReport**

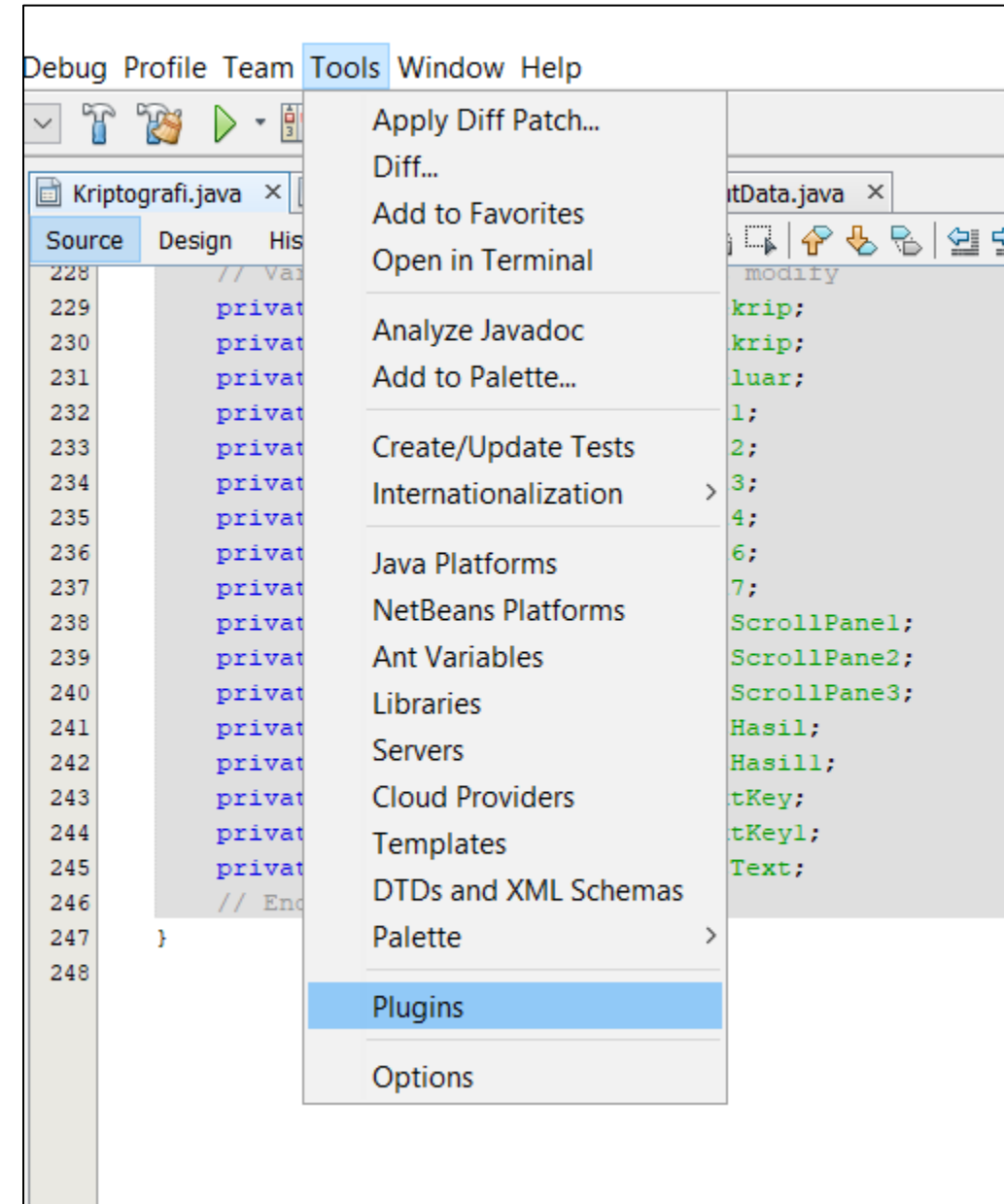
Merupakan Visual Designer untuk membuat laporan yang kompleks menggunakan JasperReport library tanpa harus memiliki pengetahuan tentang XML

# Praktikum

- Silahkan download di <https://cloud.poltekssn.ac.id/s/dP46HYPtqwSSF9b>

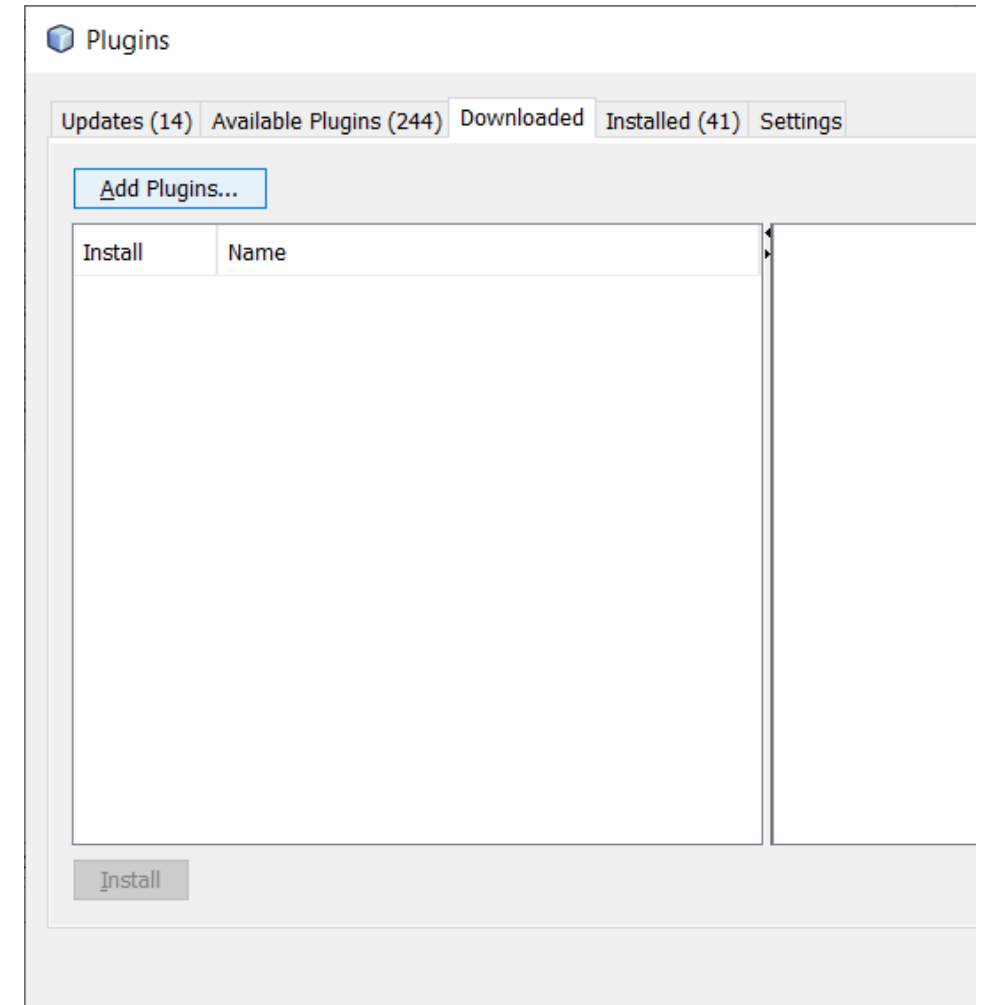
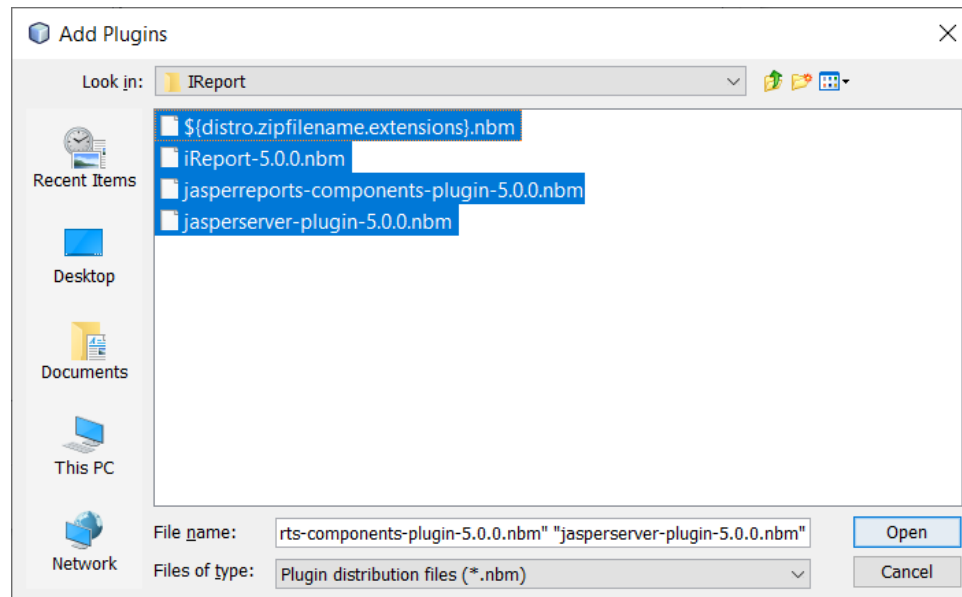
# Praktikum

- Lakukan instalasi iReport dengan cara:
- Extract iReport, dan akan menemukan 4 File dengan format file .nbm
- Buka Netbeans, pilih menu Tools > Plugins > (klik tab Downloaded)

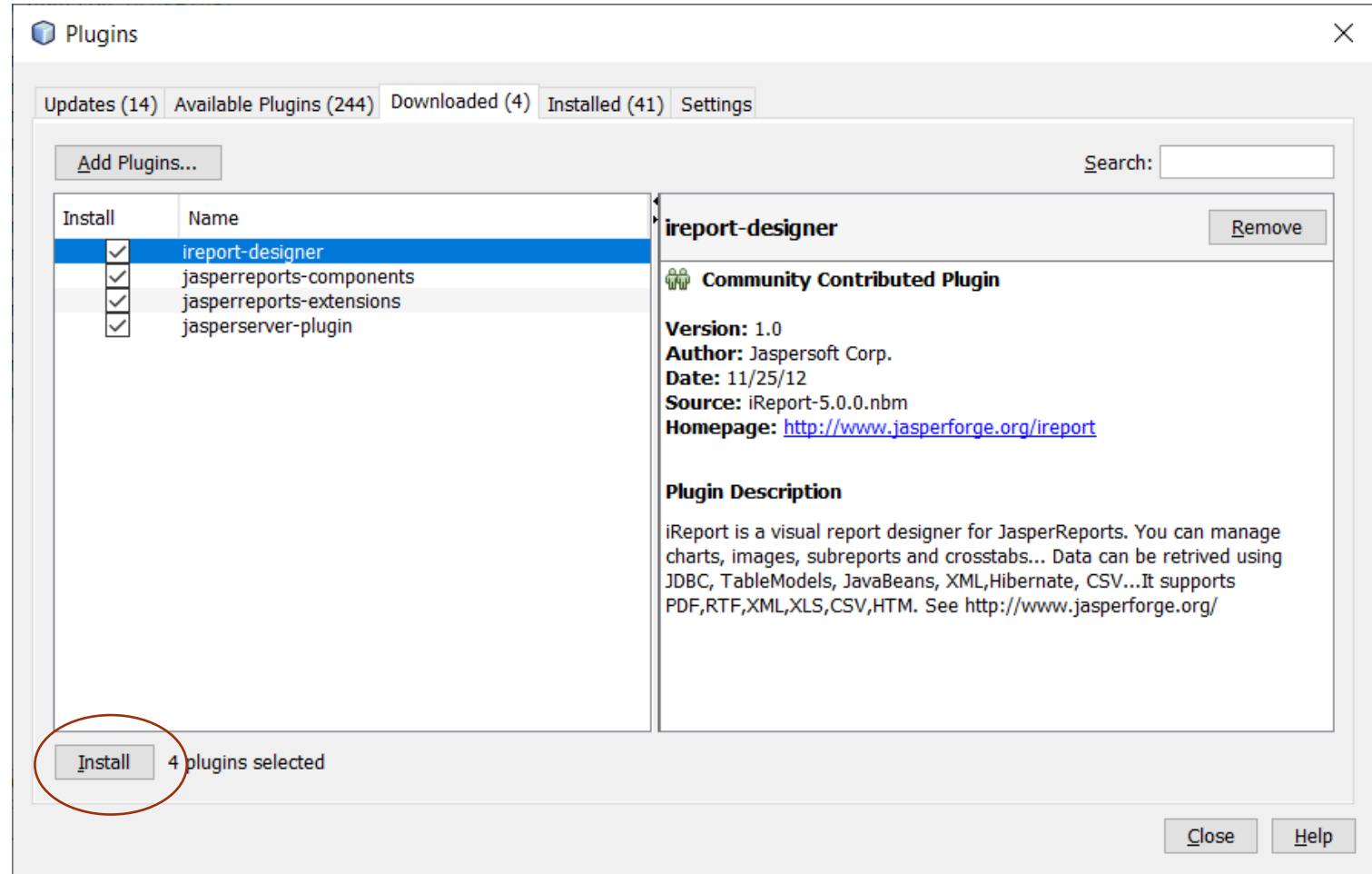


# Praktikum

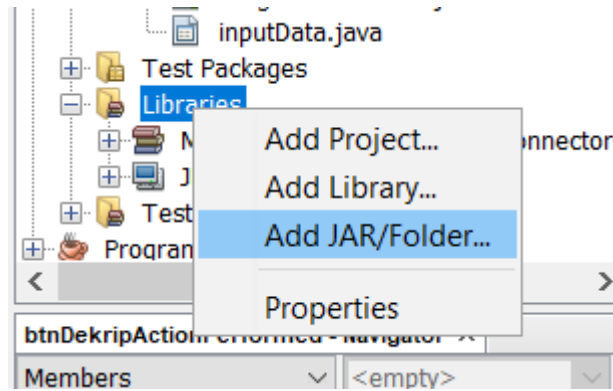
- Klik button Add, cari file iReport yang sudah kalian extract tadi
- Setelah membuka folder extract tadi, CTRL + A, lalu pilih open ke empat filenya



- Pastikan sudah tercentang semua, klik Install



- Tambahkan library



Name	Date modified	Type	Size
commons-beanutils-1.8.2.jar	12/20/2012 2:01 PM	Executable Jar File	227 KB
commons-collections-3.2.1.jar	12/20/2012 2:01 PM	Executable Jar File	562 KB
commons-digester-2.1.jar	12/20/2012 2:01 PM	Executable Jar File	193 KB
commons-javaflow-20060411.jar	12/20/2012 2:01 PM	Executable Jar File	95 KB
commons-logging-1.1.jar	12/20/2012 2:01 PM	Executable Jar File	52 KB
groovy-all-1.7.5.jar	12/20/2012 2:01 PM	Executable Jar File	5,354 KB
jasperreports-5.0.0.jar	12/20/2012 2:01 PM	Executable Jar File	4,120 KB
mysql-connector-java-5.1.18-bin.jar	10/15/2014 6:45 AM	Executable Jar File	772 KB



- Modifikasi program yang sudah dibuat sebelumnya dengan menambahkan button laporan

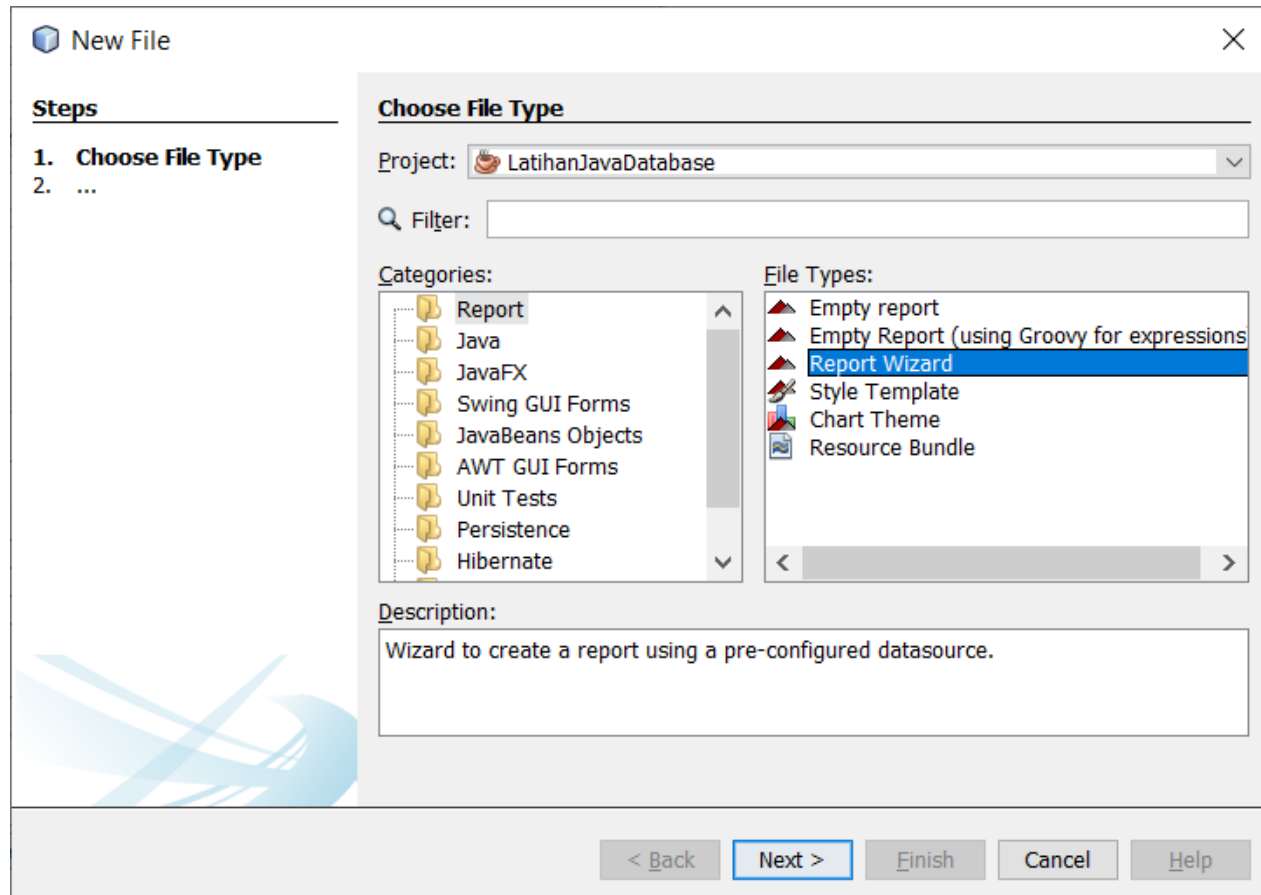
The screenshot shows a Java Swing application window titled "Aplikasi Data Karyawan". The window has a title bar with standard minimize, maximize, and close buttons. The main content area is titled "DATA KARYAWAN" and contains a form with the following fields:

- NIK: A text input field.
- Nama Karyawan: A text input field.
- Jabatan: A dropdown menu with "IT Engineer" selected.
- Alamat: A text input field.
- Email: A text input field.
- No. Telpn: A text input field.

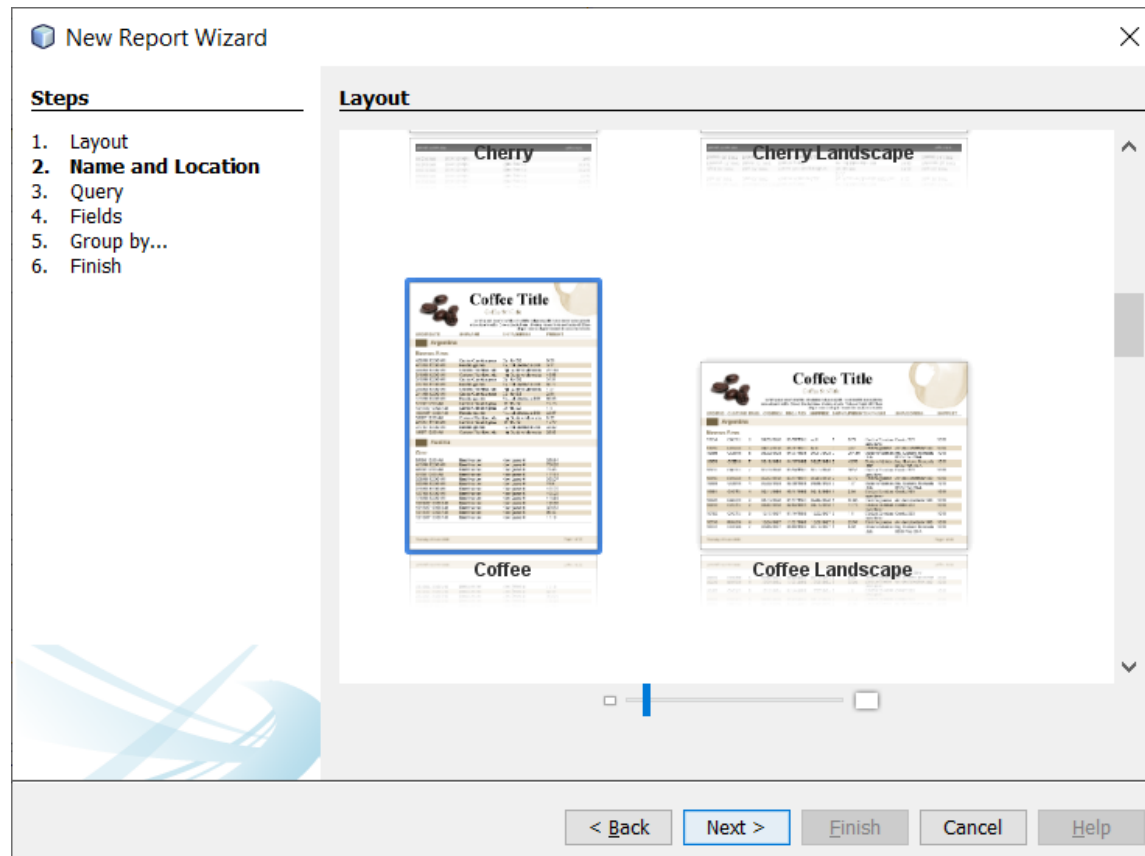
Below the form are six buttons: "Laporan", "Simpan", "Edit", "Hapus", "Batal", and "Keluar". At the bottom of the window is a table with the following data:

No.	NIP	Nama Kary...	Jabatan	Alamat	Email	No. Telpn
1	1	komang	Database A...	depok	komang@g...	12356

- Pada package project yang dibuat sebelumnya, klik kanan, pilih New lalu Other, Cari Report dan pilih Report Wizard



- Pilih Layout yang bagus (pastikan internet biar banyak pilihan layoutnya) dan beri nama report sesuai keperluan kalian, kalau saya dataKaryawan.jrxml



- Klik next

New Report Wizard

**Steps**

1. Layout
2. Name and Location
- 3. Query**
4. Fields
5. Group by...
6. Finish

**Name and Location**

File Name: dataKaryawan.jrxml


Project: LatihanJavaDatabase

Folder: Browse...

Created File: 1 desktop\8\LatihanJavaDatabase\LatihanJavaDatabase\dataKaryawan.jrxml

< Back Next > Finish Cancel Help

# Praktikum

 New File

**Steps**

1. Layout
2. Name and Location
3. Query
- 4. Fields**
5. Group by...
6. Finish

**Query**

Connections / Data Sources

Empty datasource

New


< Back

Next >

Finish

Cancel

Help

 Datasource

Select the datasource type

Database JDBC connection

NetBeans Database JDBC connection

XML file datasource

JavaBeans set datasource

File CSV datasource

JRDataSourceProvider

Custom JRDataSource

Empty data source

Hibernate connection

Spring loaded Hibernate connection

EJBQL connection

XMLA Server

Mondrian OLAP connection

Query Executer mode

Microsoft Excel (xls) data source

Microsoft Excel 2007 (xlsx) data source

Remote XML file datasource

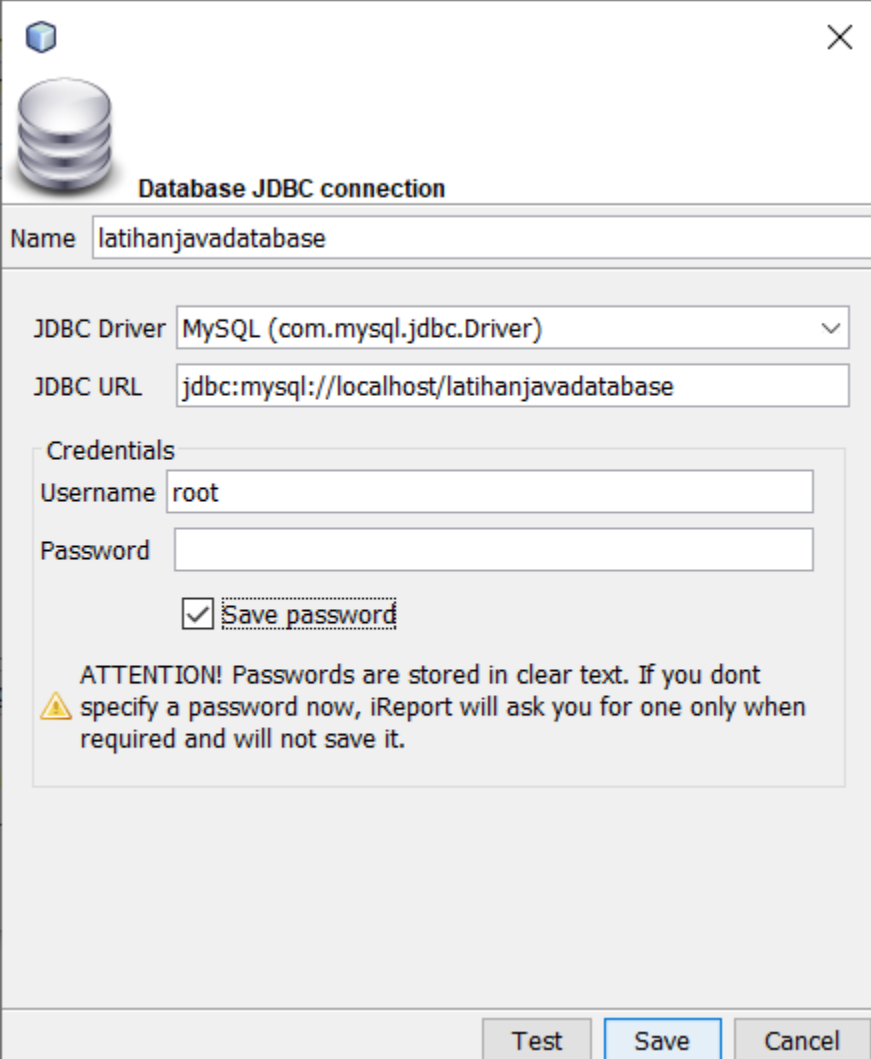
JSON datasource

Test

Next >

Cancel

- Sebelum disave, pastikan klik Test dulu untuk mentest koneksi Project kita apakah berhasil terkoneksi ke MySQL nya



**Database JDBC connection**

Name: latihanjavadatabase

JDBC Driver: MySQL (com.mysql.jdbc.Driver)

JDBC URL: jdbc:mysql://localhost/latihanjavadatabase

Credentials

Username: root

Password:

☒ Save password

ATTENTION! Passwords are stored in clear text. If you dont specify a password now, iReport will ask you for one only when required and will not save it.

Test Save Cancel

- Masukkan Query nya dari tabel kalian

The screenshot shows a 'New File' dialog box with a 'Steps' list on the left and a 'Query' section on the right. The 'Steps' list includes: 1. Layout, 2. Name and Location, 3. Query, 4. **Fields**, 5. Group by..., and 6. Finish. The 'Query' section has a dropdown for 'Connections / Data Sources' set to 'latihanjavadatabase' with a 'New' button. Below this is a text area for 'Query (SQL)' containing the text 'select \* from karyawan'. At the bottom of the 'Query' section are buttons for 'Design query', 'Load query', and 'Save query'. The bottom of the dialog box features navigation buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

New File

**Steps**

1. Layout
2. Name and Location
3. Query
4. **Fields**
5. Group by...
6. Finish

**Query**

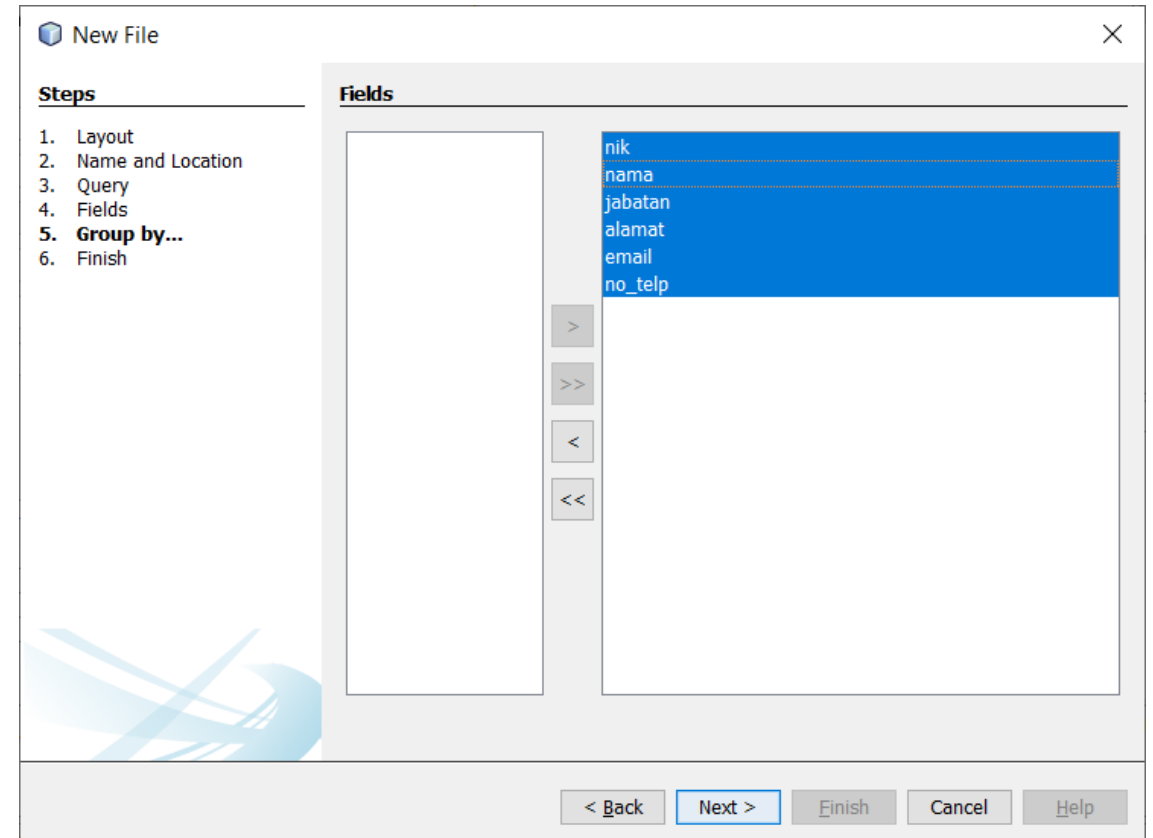
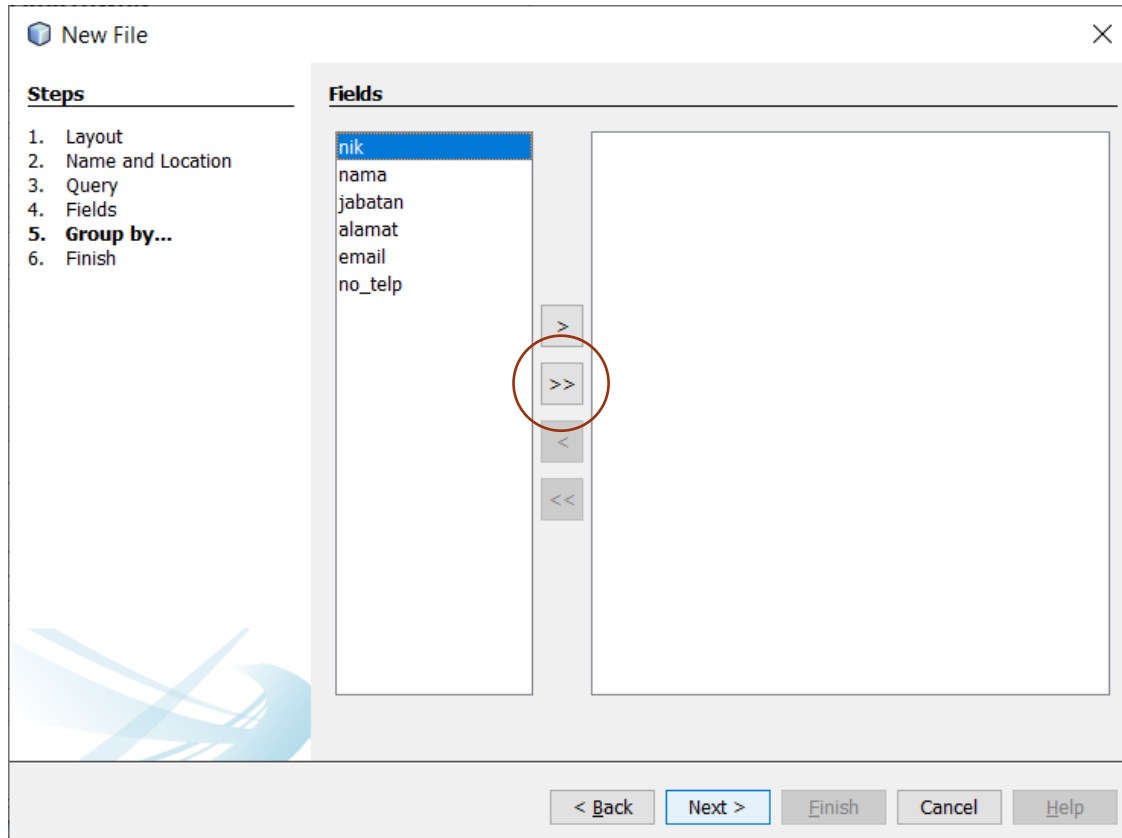
Connections / Data Sources  
latihanjavadatabase New

Query (SQL)  
select \* from karyawan

Design query Load query Save query

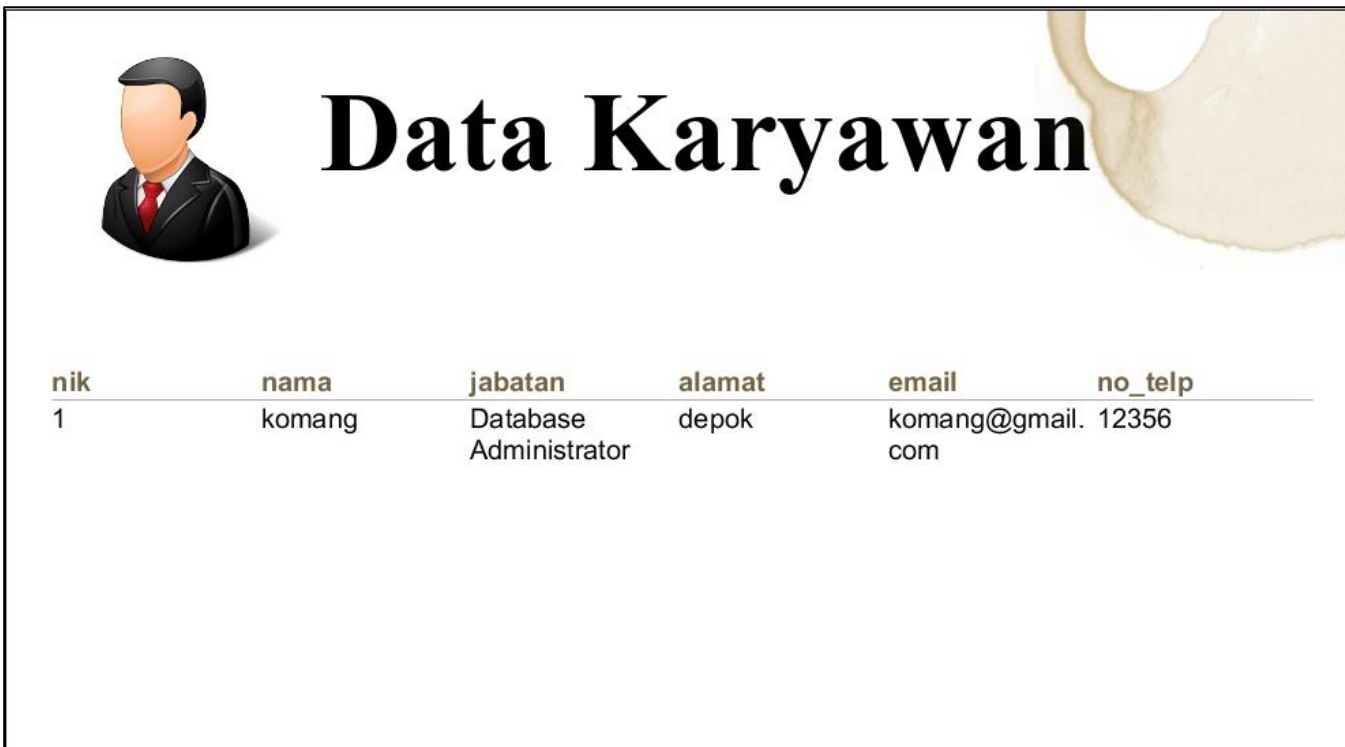
< Back Next > Finish Cancel Help

# Praktikum





- Tinggal Next dan Finish
- Buka file dataKaryawan.jrxml, klik Preview (pastikan tabel kalian memiliki data)
- Sesuaikan report tersebut dengan project kalian



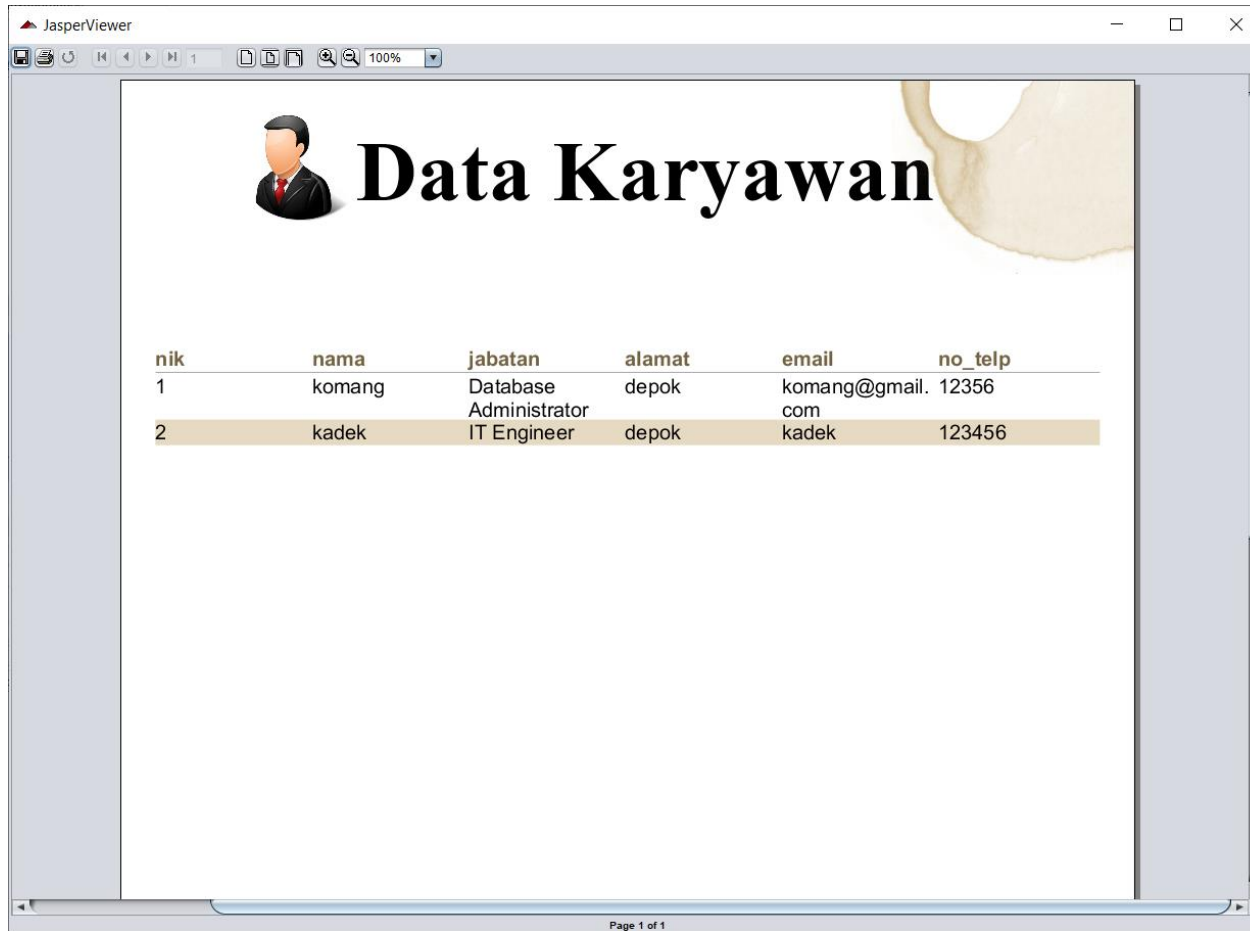
The image shows a preview of a report titled "Data Karyawan". On the left, there is a small icon of a man in a suit. The title "Data Karyawan" is prominently displayed in a large, bold, black serif font. Below the title, there is a table with six columns: "nik", "nama", "jabatan", "alamat", "email", and "no\_telp". The table contains one data row with the following values: "1", "komang", "Database Administrator", "depok", "komang@gmail.com", and "12356". The table is styled with a thin black border and a light gray background for the header row.

nik	nama	jabatan	alamat	email	no_telp
1	komang	Database Administrator	depok	komang@gmail.com	12356

- Untuk edit header dsb.. kalian cukup edit di tab Designer
- Sekarang klik dua kali di button laporan yang sudah dibuat sebelumnya

```
private void tbLaporanActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try {  
        JasperPrint jp =  
JasperFillManager.fillReport(getClass().getResourceAsStream("dataKaryawan.jasper"), null,  
Konfig.configDB());  
        JasperViewer.viewReport(jp, false);  
    } catch (Exception e) {  
        JOptionPane.showMessageDialog(rootPane, e);  
    }  
}
```

- Jalankan program yang sudah dibuat dan klik laporan



The screenshot shows a JasperViewer application window. The report displayed has a title 'Data Karyawan' with a small icon of a person in a suit. Below the title is a table with six columns: nik, nama, jabatan, alamat, email, and no\_telp. The table contains two rows of data. The first row is for 'komang', a Database Administrator, with email 'komang@gmail.com' and phone number '12356'. The second row is for 'kadek', an IT Engineer, with phone number '123456'. The status bar at the bottom indicates 'Page 1 of 1'.

nik	nama	jabatan	alamat	email	no_telp
1	komang	Database Administrator	depok	komang@gmail.com	12356
2	kadek	IT Engineer	depok	kadek	123456

# Tugas

1. Deskripsikan hasil praktikum yang dilakukan ke dalam laporan!