# LAPORAN PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

"Persistent"



# **Disusun Oleh:**

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LAB C

# DEPARTEMEN ILMU KOMPUTER / INFORMATIKA FAKULTAS SAINS DAN MATEMATIKA UNIVERSITAS DIPONEGORO SEMARANG

2023

## 1. class PersonDAO.java

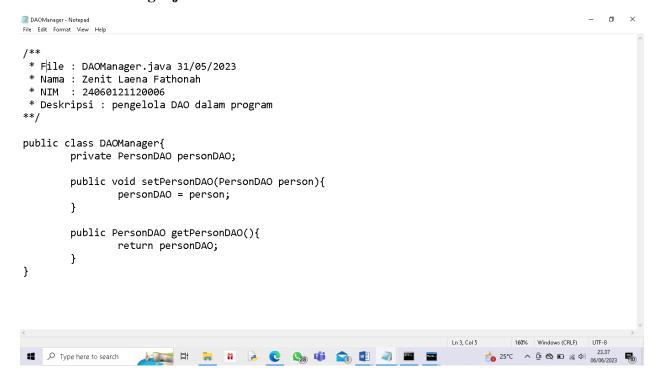
## 2. class Person.java

```
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File Edit Format View Help
 * |File : Person.java 31/05/2023
* Nama : Zenit Laena Fathonah
* NIM : 24060121120006
 * Deskripsi : Person database model
public class Person{
        private int id;
        private String name;
        public Person(String n){
                name = n;
        }
        public Person(int i, String n){
                id = i;
                name = n;
        }
        public int getId(){
                return id;
        public String getName(){
                return name;
        }
}
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```

#### 3. class MySQLPersonDAO.java

```
MySQLPersonDAO - Notepad
File Edit Format View Help
 * File : MySQLPersonDAO.java 31/05/2023
 * Nama : Zenit Laena Fathonah
 * NIM : 24060121120006
* Deskripsi : implementasi PersonDAO untuk MYSQL
import java.sql.*;
public class MySQLPersonDA0 implements PersonDA0{
         public void savePerson(Person person) throws Exception{
                   //membuat koneksi, nama db, user, password menyesuaikan
Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection con = DriverManager.getConnection(
    "jdbc:mysql://localhost/PBO","root","Sewotbae9");
                   //kerjakan mysql query
String query = "INSERT INTO person(name) VALUES (?)";
PreparedStatement statement = con.prepareStatement(query);
statement.setString(1, name);
                    System.out.println(query);
                    statement.executeUpdate();
                    //tutup koneksi database
                    statement.close();
                   con.close();
         }
}
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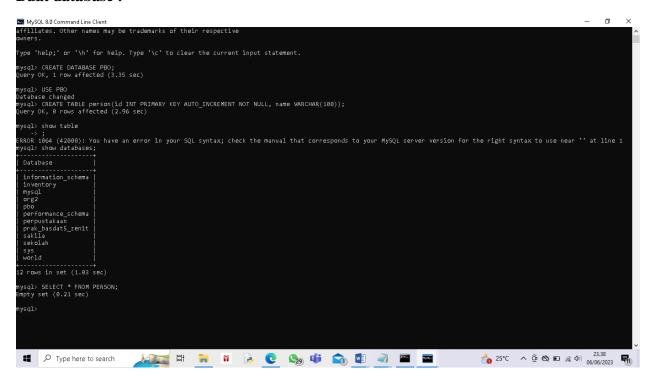
## 4. class DAOManager.java



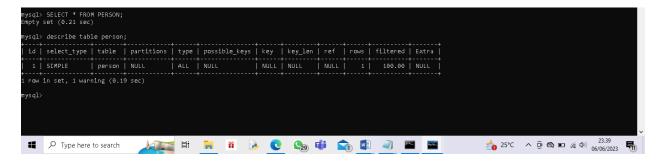
#### 5. class MainDAO

```
MainDAO - Notepad
                                                                                                               - o ×
File Edit Format View Help
/**
* File : MainDAO.java 31/05/2023
* Nama : Zenit Laena Fathonah
* NIM : 24060121120006
* Deskripsi : main program untuk akses DAO
public class MainDAO{
       public static void main(String args[]){
               Person person = new Person("Indra");
               DAOManager m = new DAOManager();
               m.setPersonDAO(new MySQLPersonDAO());
                       m.getPersonDAO().savePerson(person);
               }catch(Exception e){
                       e.printStackTrace();
                }
        }
//Lihat apakah terjadi penambahan record pada tabel?
// Ya, pada database pbo dengan tabel Person di MYSQL yang sebelumnya adalah empty set,
// terdapat penambahan record yaitu Indra dengan id 1
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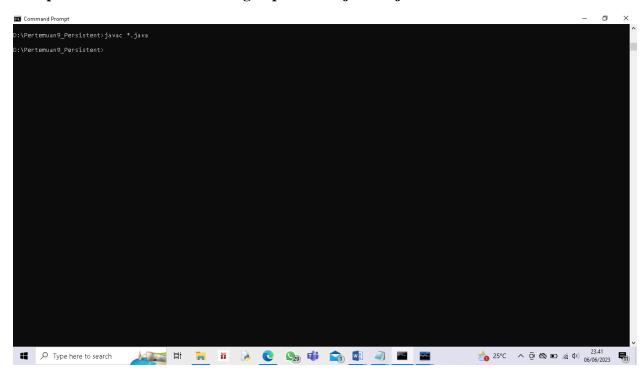
#### **Buat database:**



#### **Table Person:**



#### Kompilasi semua source code dengan perintah : javac \*.java



# Jalankan MainDAO dengan perintah : java -classpath .\mysql-connector-java-8.0.33.jar;. MainDAO



#### 1. class SerializePerson

```
SerializePerson - Notepad
File Edit Format View Help

/**

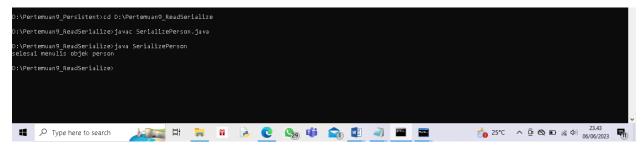
* File : SerializePerson.java 31/05/2023

* Nama/NIM : Zenit Laena Fathonah/24060121120006

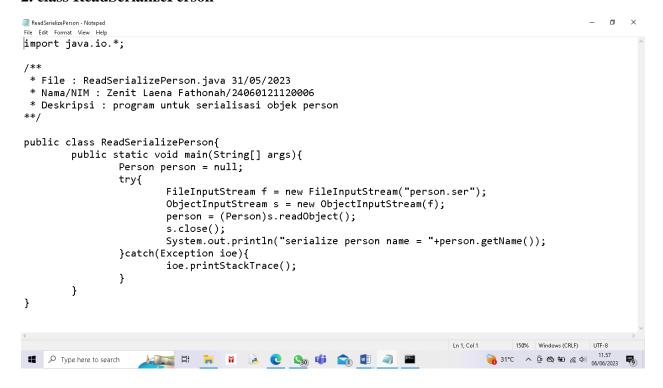
* Deskripsi : program untuk realisasi objek person

**/*
import java.io.*;
class Person implements Serializable{
           private String name;
public Person(String n){
           public String getName(){
                      return name;
 }
public class SerializePerson{
           public static void main(String[] args){
    Person person = new Person("Panji");
                                  FileOutputStream f = new FileOutputStream("person.ser"); ObjectOutputStream s = new ObjectOutputStream(f);
                                  s.writeObject(person);
System.out.println("selesai menulis objek person");
                       s.close();
}catch(IOException e){
                                   e.printStackTrace();
           }
 }
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```

# Hasil compile dan jalankan kode program:



#### 2. class ReadSerializePerson



# Hasil compile dan jalankan kode program :

