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Lab : PBO C1

## Tugas Praktikum 9

### A. Menggunakan Persistent Object sebagai model basis data relasional

#### 1. PersonDAO.java

```
package persistentobject;
/**
 * File : PersonDAO.java
 * Penulis : Muhammad Akmal Iskandar - 24060121140094
 * Deskripsi : interface untuk person access object
 */
public interface PersonDAO{
    public void savePerson(Person p) throws Exception {
    }
}
```

#### 2. Person.java

```
/**
 * File : Person.java
 * Penulis : Muhammad Akmal Iskandar - 24060121140094
 * 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;
    }
}
```

### 3. MySQLPersonDAO.java

```
package persistentobject;
/**
 * File : MySQLPersonDAO.java 06/06/23
 * Penulis : Muhammad Akmal Iskandar - 24060121140094
 * Deskripsi : implementasi PersonDAO untuk MySQL
 */
import java.sql.*;
class MySQLPersonDAO implements PersonDAO {
    public void savePerson(Person person) throws Exception {
        String name = person.getName();
        Class.forName("com.mysql.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/pbo", "root", "");
        String query = "INSERT INTO person(name) VALUES ('" + name +
"')";
        System.out.println(query);
        Statement s = con.createStatement();
        s.executeUpdate(query);
        con.close();
    }
}
```

### 4. DAOManager.java

```
package persistentobject;
/**
 *
 * File : DAOManager.java
 * Penulis : Muhammad Akmal Iskandar - 24060121140094
 * Deskripsi : pengelola DAO dalam program
 */
public class DAOManager{
    private PersonDAO personDAO;

    public void setPersonDAO(PersonDAO person){
        personDAO = person;
    }
    public PersonDAO getPersonDAO(){
        return personDAO;
    }
}
```

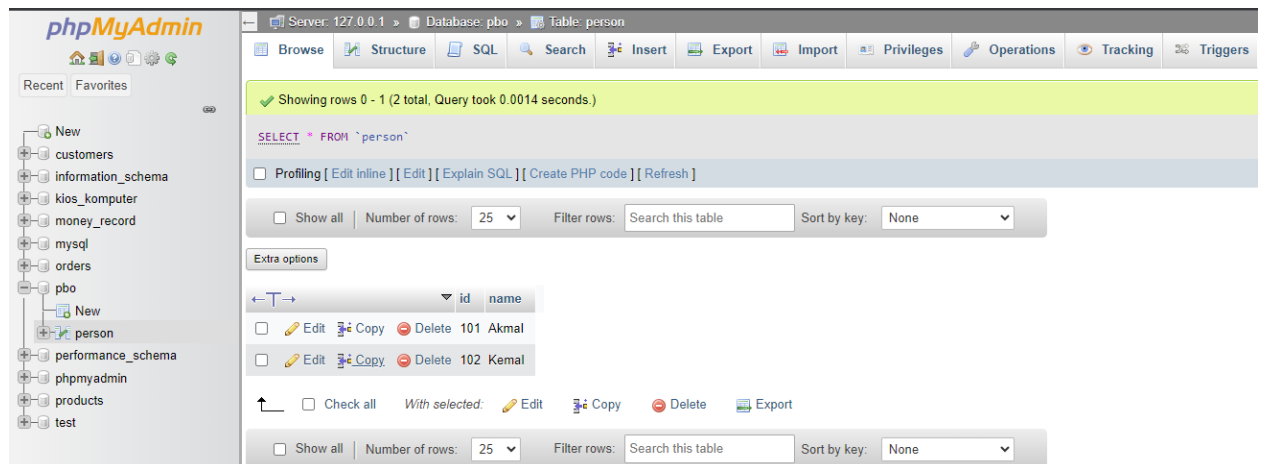
## 5. MainDAO.java

```
package persistentobject;
public class MainDAO {
    public static void main(String[] args) {
        Person person = new Person("Indra");
        DAOManager m = new DAOManager();
        m.setPersonDAO(new MySQLPersonDAO());

        try {
            m.getPersonDAO().savePerson(person);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

## 6. Membuat database dengan nama “pbo” dan membuat tabel pada database.

```
CREATE TABLE person(id INT PRIMARY KEY AUTO_INCREMENT NOT NULL,name
VARCHAR(100))
```



## 7. Compile kode dengan perintah: **javac \*.java**

```
PS D:\UNDIP\MATERI PPT\Semester 4\PBO\Praktikum\Pertemuan 9\untitled\src> javac MainDAO.java
MainDAO.java:4: error: cannot find symbol
    Person person = new Person("Indra");
    ^
symbol:   class Person
location: class MainDAO
MainDAO.java:4: error: cannot find symbol
    Person person = new Person("Indra");
    ^
symbol:   class Person
location: class MainDAO
MainDAO.java:5: error: cannot find symbol
    DAOManager m = new DAOManager();
    ^
symbol:   class DAOManager
location: class MainDAO
```

Penjelasan :

Program masih error

8. Jalankan MainDAO.java dengan perintah:

**java -classpath .\mysql-connector-j-8.0.33.jar;. MainDAO**

```
PS D:\UNDIP\MATERI PPT\Semester 4\PBO\Praktikum\Pertemuan 9\untitled\src> java -classpath .\mysql-connector-j-8.0.33.jar;. MainDAO
Usage: java [options] <mainclass> [args...]
        (to execute a class)
or  java [options] -jar <jarfile> [args...]
        (to execute a jar file)
or  java [options] -m <module>[/<mainclass>] [args...]
    java [options] --module <module>[/<mainclass>] [args...]
        (to execute the main class in a module)
or  java [options] <sourcefile> [args]
        (to execute a single source-file program)

Arguments following the main class, source file, -jar <jarfile>,
-m or --module <module>[/<mainclass>] are passed as the arguments to
```

Penjelasan :

Program masih error