

LAPORAN PRAKTIKUM
PRAKTIKUM 9
“PERSISTENT OBJECT”



Disusun Oleh :

Nama : Ririn Indah Cahyani

NIM : 24060121130069

PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

LAB B1

DEPARTEMEN ILMU KOMPUTER / INFORMATIKA

FAKULTAS SAINS DAN MATEMATIKA

UNIVERSITAS DIPONEGORO

SEMARANG

2023

1. Interface PersonDAO.java

```
/*
 * File      : PersonDAO.java 31/05/2023
 * Penulis   : Ririn Indah Cahyani - 24060121130069
 * Lab       : PBO B1
 * Deskripsi : interface unnutk person access object
 */
public interface PersonDAO {
    public void savePerson(Person p) throws Exception;
}
```

2. Class Person.java

```
/*
 * File      : Person.java 31/05/2023
 * Penulis   : Ririn Indah Cahyani - 24060121130069
 * Lab       : PBO B1
 * 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. Class MySQLPersonDAO.java

```
/*
 * File      : MySQLPersonDAO.java 31/05/2023
 * Penulis   : Ririn Indah Cahyani - 24060121130069
 * Lab       : PBO B1
```

```

/* Deskripsi : implementasi PersonDAO untuk MySQL
*/

import java.sql.*;

public class MySQLPersonDAO implements PersonDAO{
    public void savePerson(Person person) throws Exception{
        String name = person.getName();
        //membuat koneksi, nama db, user, password menyesuaikan
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con =
        DriverManager.getConnection("jdbc:mysql://localhost:3307/pbo","root","Pir
        ing123@");
        //kerjakan mysql query
        String query = "INSERT INTO person(name) VALUES('"+name+"')";
        System.out.println(query);
        Statement s = con.createStatement();
        s.executeUpdate(query);
        //tutup koneksi database
        con.close();
    }
}

```

4. DAOManager.java

```

/*
* File      : DAOManager.java 31/05/2023
* Penulis   : Ririn Indah Cahyani - 24060121130069
* Lab       : PBO B1
* 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

```

/*
* File      : MainDAO.java 31/05/2023
* Penulis   : Ririn Indah Cahyani - 24060121130069

```

```

* Lab      : PBO B1
* 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());
        try{
            m.getPersonDAO().savePerson(person);
        }catch(Exception e){
            e.printStackTrace();
        }
    }
}

```

Setelah melakukan compile dan run pada cmd akan menghasilkan sebagai berikut:

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
PersonDAO.java

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
Person.java

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
MySQLPersonDAO.java

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
MainDAO.java

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
MainDAO
error: Class names, 'MainDAO', are only accepted if annotation processing is explicitly requested
1 error

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>javac
-classpath .\mysql-connector-j-8.0.33.jar; . MainDAO
INSERT INTO person(name) VALUES('Indra')

C:\Users\LENOVO\OneDrive\Documents\KULIAH\SEMESTER 4\Prak Pemrograman Berorientasi Objek\UAS\Pertemuan Terakhir\Database1\src>

```

```
MySQL 8.0 Command Line Cli  X + v
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.31 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use pbo;
Database changed
mysql> select * from person;
+----+-----+
| id | name |
+----+-----+
|  1 | Indra |
+----+-----+
1 row in set (0.00 sec)

mysql>
```