

Muhamad Aditya Yusuf
24060121140157
PBO B1

PRAKTIKUM 9 PBO

File:

PersonDAO.java

```
/*
 * Nama Pembuat: Muhamad Aditya Yusuf
 * NIM : 24060121140157
 * Nama File: PersonDAO.java
 * Tanggal Pembuatan: 4 Juni 2023
 * Deskripsi: Program PersonDAO
 * */

public interface PersonDAO {
    public void savePerson(Person p) throws Exception;
}
```

Person.java

```
/*
 * Nama Pembuat: Muhamad Aditya Yusuf
 * NIM : 24060121140157
 * Nama File: Person.java
 * Tanggal Pembuatan: 4 Juni 2023
 * Deskripsi: Program Person
 * */

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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MySQLPersonDAO.java

```
/*
 * Nama Pembuat: Muhamad Aditya Yusuf
 * NIM : 24060121140157
 * Nama File: MySQLPersonDAO.java
 * Tanggal Pembuatan: 4 Juni 2023
 * Deskripsi: Program MySQLPersonDAO
 * */
import java.sql.*;

public 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:3307/pbo"
, "root", "*****");

        String query = "INSERT INTO person (name) VALUES
('"+name+"')";
        System.out.println(query);
        Statement s = con.createStatement();
        s.executeUpdate(query);
        con.close();
    }
}
```

DAOManager.java

```
/*
 * Nama Pembuat: Muhamad Aditya Yusuf
 * NIM : 24060121140157
 * Nama File: DAOManager.java
 * Tanggal Pembuatan: 4 Juni 2023
 * Deskripsi: Program DAOManager
 * */
public class DAOManager {
    private PersonDAO personDAO;

    public void setPersonDAO(PersonDAO personDAO){
        this.personDAO = personDAO;
    }

    public PersonDAO getPersonDAO(){
        return personDAO;
    }
}
```

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MainDAO.java

```
/*
 * Nama Pembuat: Muhamad Aditya Yusuf
 * NIM : 24060121140157
 * Nama File: MainDAO.java
 * Tanggal Pembuatan: 4 Juni 2023
 * Deskripsi: Program Main
 * */
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();
        }
    }
}
```

Hasil:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Yusuf\OneDrive - Universitas Diponegoro\Documents\Project Latihan\Latihan JS dan Java\Praktikum 9>javac *.java

C:\Users\Yusuf\OneDrive - Universitas Diponegoro\Documents\Project Latihan\Latihan JS dan Java\Praktikum 9>java -classpath .\mysql-connector-java-[versi].jar;. MainDAO
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class is discouraged. Please use 'Class.forName(Class.getName())' if you need to use manual loading of the driver class.
INSERT INTO person (name) VALUES ('Indra')
```

```
MySQL 8.0 Command Line Client

Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 8.0.33 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>
```