NIM: 24060121120005

Lab: B1

```
// File: PersonDAO.java
// deksripsi : interface untuk person accesss objek
// Pembuat: Attaf Riski Putra Ramadhan
// Tanggal: Kamis, 1 Juni 2023

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

```
// File: Person.java
// Deskripsi: Person database model
// Pembuat: Attaf Riski Putra Ramadhan
// Tanggal: Kamis, 1 Juni 2023
public class Person {
  // KAMUS LOKAL
  private intid;
  private String name;
  // konstruktor
  public Person(String n) {
     this.name = n;
  }
  public Person(int i, String n) {
    this.id = i;
     this.name = n;
  }
  // getter & setter
  public int getId() {
     return id;
```

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Lab: B1

```
// File: MySQLPersonDAO.java
// Deskripsi: Implementasi PersonDAO untuk MySQL
// Pembuat: Attaf Riski Putra Ramadhan
// Tanggal: Kamis, 1 Juni 2023
import java.sql.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
public class MySQLPersonDAO implements PersonDAO {
  @ Override
  public void savePerson(Person p) throws Exception {
    String name = p.getName();
     // membuat koneksi, nama db, user, password menyesuaikan
    Class.forName("com.mysql.jdbc.Driver");
     <u>Connection</u> conn = <u>DriverManager</u>.getConnection(
          "jdbc:mysql://localhost/pbo",
         "root",
          "");
     // kerjakan mysql query
     String query = "INSERT INTO person(name) VALUES("" + name + "")";
     System.out.println(query);
     Statement s = conn.createStatement();
     s.executeUpdate(query);
     // tutup koneksi database
     conn.close();
```

```
// File: DAOManager.java

// Deskripsi: Pengelola DAO dalam program

// Pembuat: Attaf Riski Putra Ramadhan

// Tanggal: Kamis, 1 Juni 2023

public class <u>DAOManager</u> {
    private <u>PersonDAO</u> personDAO;

public void setPersonDAO (<u>PersonDAO</u> person) {
    personDAO = person;
    }

public PersonDAO getPersonDAO() {
```

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Lab: B1

```
// File: MainDAO.java

// deksripsi: Main program untuk akses DAO

// Pembuat: Attaf Riski Putra Ramadhan

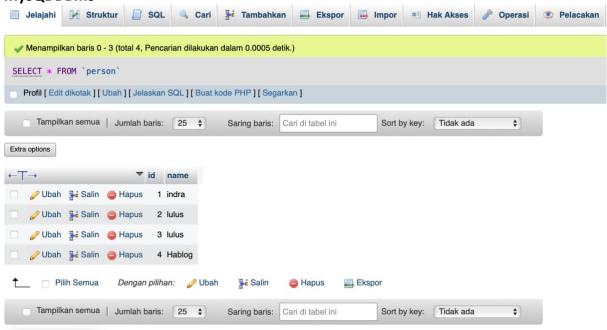
// Tanggal: Kamis, 1 Juni 2023

public class MainDAO {
    public static void main(String[] args) {
        Person person = new Person("Hablog");
        DAOManager m = new DAOManager();
        m.setPersonDAO(new MySQLPersonDAO());
        try {
            m.getPersonDAO().savePerson(person);
        } catch (Exception e) {
```

## **Command Line**

attaf-riski@attafslepi prak9 % cd /Users/attaf-riski/Documents/Undip/Sem.4/PBO/prak/prak9 ; /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-16.0.1.jdk/Contents/Home/bin/java @/var/folders/l3/xc36hvhs7w319mtd6cw2g2j40000gn/T/cp\_28eenni7pss9bgmaseu9xveg5.argfile persistent.Main DAO Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically r egistered via the SPI and manual loading of the driver class is generally unnecessary.
INSERT INTO person(name) VALUES('Hablog') attaf-riski@attafslepi prak9 %

## MySQL DBMS



NIM: 24060121120005

Lab: B1

```
// File: SerializePerson.java
// Deskripsi: Program untuk serialisasi objek Person
// Pembuat: Attaf Riski Putra Ramadhan
// Tanggal: Kamis, 1 Juni 2023
import <u>iava.io</u>.*;
class Person implements Serializable {
  private String name;
  public Person(String n) {
     name = n;
  }
  public String getName() {
     return name;
  }
} // end class Person
public class SerializePerson {
  public static void main(String[] args) {
     Person person = new Person("Panji");
     try {
       FileOutputStream f = new FileOutputStream("person.ser");
       ObjectOutputStream s = new ObjectOutputStream(f);
       e writeOhiect(nerson).
```

```
// File: ReadSerializedPerson.java
// deksripsi: Program untuk serialisasi objek person
// Pembuat: Attaf Riski Putra Ramadhan
// Tanggal: Kamis, 1 Juni 2023
import java.jo.*;

public class ReadSerializedPerson {
   public static void main(String[] args) {
        Person person = null;
        try {
            FileInputStream f = new FileInputStream("person.ser");
            ObjectInputStream s = new ObjectInputStream(f);
            person = (Person) s.readObject();
            s.close();
            System.out.println("Serialized person name=" + person.getName());
```