LAPORAN PRAKTIKUM PBO 9



Disusun Oleh:

Faizal Husain Adiasha 24060121140035

PRAKTIKUM PBO LAB B2

DEPARTEMEN ILMU KOMPUTER / INFORMATIKA FAKULTAS SAINS DAN MATEMATIKA UNIVERSITAS DIPONEGORO SEMARANG 2022

A. Kelas PersonDAO

```
// personDAO.java 6/6/23
// Penulis : Faizal Husain Adiasha
// NIM : 24060121140115
// Deskripsi: Interface untuk person access object
public interface PersonDAO {
    public void savePerson(Person p) throws Exception;
}
```

B. Kelas Person

```
// Person.java 6/6/23
// Penulis : Faizal Husain Adiasha
// NIM : 24060121140115
// Deskripsi: Kelas Person Database Model
public class Person {
     private int id;
      private String name;
      public Person(String n) {
         this.name = n;
      public Person(int i, String n) {
         this.id = i;
         this.name = n;
      }
      public int getId() {
        return this.id;
      public String getName() {
        return this.name;
      }
```

C. Kelas MySQLPersonDAO

```
// MySQLPersonDAO.java 6/6/23
// Penulis : Faizal Husain Adiasha
```

```
: 24060121140115
// NIM
// Deskripsi: Implementasi PersonDao untuk MySQL
import java.sql.*;
public class MySQLPersonDao implements PersonDAO {
      public void savePerson(Person person) throws Exception {
      String name = person.getName();
      Class.forName("com.mysql.cj.jdbc.Driver");
      Connection con =
      DriverManager.getConnection("jdbc:mysql://localhost:3310/Person"
      , "root", "");
      String query = "INSERT INTO Person (name) VALUES ('" + name +
      "')";
      Statement s = con.createStatement();
      s.executeUpdate(query);
      s.close();
```

D. Kelas DAOManager.java

E. Kelas MainDAO

```
// MainDAO.java 6/6/23
// Penulis : Faizal Husain Adiasha
// NIM : 24060121140115
// Deskripsi: Kelas Person Database Model
public class MainDAO {
    public static void main(String[] args) {
        Person person = new Person("Faizal Husain Adiasha");
        DAOManager m = new DAOManager();
        m.setPersonDAO(new MySQLPersonDao());
        try {
            m.getPersonDAO().savePerson(person);
        } catch (Exception e) {
            e.printStackTrace();
```

```
}
}
}
```

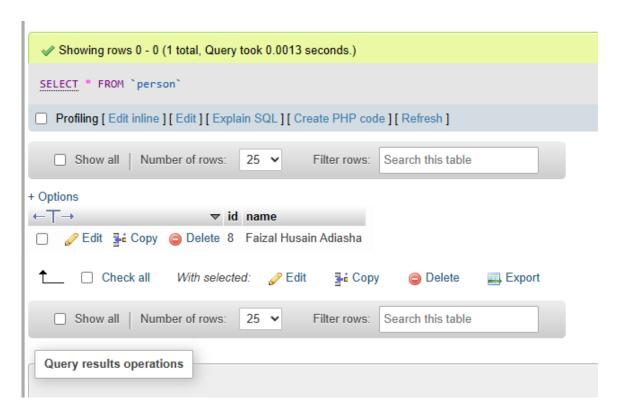
F. Mencoba Menjalankan MainDAO

```
Husain@DESKTOP-SJ18GTC MINGW64 /d/PBO/praktikum-pbo/Praktikum 9/MySQL (master)
$ java MainDAO

Husain@DESKTOP-SJ18GTC MINGW64 /d/PBO/praktikum-pbo/Praktikum 9/MySQL (master)
$ java MainDAO

Husain@DESKTOP-SJ18GTC MINGW64 /d/PBO/praktikum-pbo/Praktikum 9/MySQL (master)
$ i
```

Setelah dijalankan, terlihat dalam table person sudah ada satu data yaitu Faizal Husain Adiasha sesuai dengan yang diinsertkan pada kode



Serialized

A. SerializePerson

```
// SerializePerson.java 6/6/23
// Penulis : Faizal Husain Adiasha
           : 24060121140115
// Deskripsi: Program Untuk Serialisasi Objek Person
import java.io.*;
public class Person implements Serializable {
          private String name;
          public Person(String n) {
              name = n;
          public String getName() {
              return name;
public class SerializePerson {
      public static void main(String[] args) {
      Person person = new Person("Faizal Husain Adiasha");
      try {
            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 i) {
            i.printStackTrace();
      }
      }
```

B. ReadSerializedPerson

```
// ReadSerializedPerson.java 6/6/23
// Penulis : Faizal Husain Adiasha
           : 24060121140115
// Deskripsi: Program Untuk Serialisasi Objek Person
import java.io.*;
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());
              } catch (Exception ioe) {
                  ioe.printStackTrace();
```

```
}
```

C. Mencoba Serialize person

```
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent> javac ReadSerializedPerson.java
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent> javac ReadSerializedPerson.java
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent> java ReadSerializedPerson
Serialized person name =Faizal Husain Adiasha
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent>
* History restored
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent> java ReadSerializedPerson
Serialized person name =Faizal Husain Adiasha
PS D:\PBO\praktikum-pbo\Praktikum 9\Persistent>
```