LAPORAN TUGAS KULIAH
PEMROGRAMAN BERORIENTASI OBYEK
Pertemuan keempat (12 September 2023)

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TUGAS 4
Kodingan

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.Scanner;
//main
public class Tugas {
    static final String url = "jdbc:postgresql://localhost:5432/Tugas";
    static final String user ="postgres";
    static final String pass = "bajumuslim";
    static final Scanner sc = new Scanner ( source:System.in);

    public static void main(String[] args) {
        boolean berhenti = true;
        do{
            Scanner sci = new Scanner( source:System.in);
            System.out.println( x:"-|- Menu -|-");
            System.out.println( x:"|1| Select");
            System.out.println( x:"|2| Insert");
            System.out.println( x:"|3| Update");
            System.out.println( x:"|4| Delete");
            System.out.println( x:"-|--------|-");
            System.out.print( s:"Pilih");
            int pilih = sci.nextInt();
            System.out.println();

            switch (pilih) {
                case 1 :
                    ambilData();
                    break;
                case 2 :
                    tambahData();
                    break;
                case 3 :
                    perbaruiData();
                    break;
                case 4 :
                    hapusData();
                default :
                    System.out.println( x:"Tidak ada");
            }
```

```java
                    default :
                        System.out.println( x:"Tidak ada");
                }

                System.out.println( x:"lanjut [Y/T]");
                String lanjut = sc.nextLine();

                if(lanjut.equalsIgnoreCase( anotherString:"Y"))
                    berhenti = true;
                else
                    berhenti = false;
            } while (berhenti);
        }
    //select
    static void ambilData(){
    String query = "select * from absen";
    try{
        Connection conn = DriverManager.getConnection(url, user,  password:pass);
        Statement stmt = conn.createStatement ();
        ResultSet rs = stmt.executeQuery( string:query);
        while (rs.next()){
    System.out.println("nim\t:"+" "
        +String.valueOf( obj:rs.getObject( string:"nim")));
    System.out.println("nama\t:"+" "
        +String.valueOf( obj:rs.getObject( string:"nama")));
    System.out.println("domisili:"+" "
        +String.valueOf( obj:rs.getObject( string:"domisili")));
    System.out.println();
        }
}catch (SQLException e) {
    e.printStackTrace();
}
}

    //insert
static void tambahData(){
    System.out.println( x:"INSERT");
    System.out.print( s:"NIM\t: ");
    String nim = sc.nextLine();
    System.out.print( s:"NAMA\t: ");
    String nama = sc.nextLine();
    System.out.print( s:"DOMISILI: ");
    String domisili = sc.nextLine();

    String query = "insert into absen values ('"
        + nim + "','" + nama + "', '" + domisili + "')";

try{
    Connection conn = DriverManager.getConnection(url,user, password:pass);
    Statement stmt = conn.createStatement();
    stmt.execute( string:query);
    System.out.println( x:"Data berhasil dimasukkan\n");
}catch (SQLException e) {
    e.printStackTrace ();
    System.out.println( x:"Data gagal dimasukkan\n");
}
}
```

```java
    //update
static void perbaruiData() {
    System.out.println( x:"Update");
    System.out.print( s:"NIM\t: ");
    String nim = sc.nextLine();
    System.out.print( s:"NAMA\t: ");
    String nama = sc.nextLine();
    System.out.print( s:"DOMISILI: ");
    String domisili = sc.nextLine();

    String query = "update absen set nama = '" + nama + "', domisili = '"
            + domisili + "', nim = '" + nim + "'";

    try{
        Connection conn = DriverManager.getConnection(url,user, password: pass);
        Statement stmt = conn.createStatement();
        stmt.execute( string:query);
        System.out.println( x:"Data berhasil diperbarui\n");
    }catch (SQLException e) {
        e.printStackTrace ();
        System.out.println( x:"Data gagal diperbarui\n");
        }
        }
        ʃ
    //delete

static void hapusData() {
    System.out.println( x:"Delete");
    System.out.print( s:"NIM\t: ");
    String nim = sc.nextLine();

    String query = "delete from absen where nim = '" + nim + "'";

    try{
        Connection conn = DriverManager.getConnection(url,user, password: pass);
        Statement stmt = conn.createStatement();
        stmt.execute( string:query);
        System.out.println( x:"Data berhasil dihilangkan\n");
    }catch (SQLException e) {
        e.printStackTrace ();
        System.out.println( x:"Data gagal dihilangkan\n");
        }
        }
}
```

OUTPUT

```
run:
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih2

INSERT
NIM     : 111
NAMA    : 111
DOMISILI: 111
Data berhasil dimasukkan

lanjut [Y/T]
Y
```

```
Output - Tugas4 (run) #9   ×

run:
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih2

INSERT
NIM     : 111
NAMA    : 111
DOMISILI: 111
Data berhasil dimasukkan

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

nim      : 111
nama     : 111
domisili: 111

lanjut [Y/T]
|
```

```
lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih3

Update
NIM     : 222
NAMA    : 222
DOMISILI: 222
Data berhasil diperbarui

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

nim     : 222
nama    : 222
domisili: 222

lanjut [Y/T]
```

```
nim     : 222
nama    : 222
domisili: 222

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih4

Delete
NIM     : 222
Data berhasil dihilangkan

Tidak ada
lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

lanjut [Y/T]
Y
-|- Menu -|-
|1| Select
|2| Insert
|3| Update
|4| Delete
-|--------|-
Pilih1

lanjut [Y/T]
T
BUILD SUCCESSFUL (total time: 1 minute 50 seconds)
```