LAPORAN TUGAS KULIAH

PEMROGRAMAN BERORIENTASI OBJEK

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SURABAYA

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TUGAS : Membuat Create, Update, Delete, Select yang terhubung dengan Postgresql.

Pilihan menu :

```
12  import java.sql.*;
13  import java.util.*;
14
15  public class CRUD {
16
18      static final String url = "jdbc:postgresql://localhost:5432/postgres";
19      static final String USER = "postgres";
20      static final String PASS = "11111";
21      static final Scanner sc = new Scanner( in:System.in);
22
24      public static void main(String[] args) {
25          boolean selesai = true;
26          do{
27              Scanner scan = new Scanner( in:System.in);
28              System.out.println( x:"PILIHAN");
29              System.out.println( x:"1. Insert");
30              System.out.println( x:"2. Update");
31              System.out.println( x:"3. Delete");
32              System.out.println( x:"4. Select");
33              System.out.println( x:"5. Selesai");
34              System.out.println( x:"Pilih : ");
35              int pilih = scan.nextInt();
37              System.out.println();
38
39              if(pilih == 1){
40                  insert();
41              }
42              else if(pilih == 2){
43                  update();
44              }
45              else if(pilih == 3){
46                  delete();
47              }
48              else if(pilih == 4){
49                  select();
50              }
51              else if(pilih == 5){
52                  selesai();
53              }
54              else {
55                  System.out.println( x:"salah!!");
              }
          } while(selesai = true);
      }
```

METHOD INSERT :

```
public static void insert(){
    System.out.println( x: "Nama : ");
    String nama = sc.next();
    System.out.println( x: "NIM : ");
    String nim = sc.next();
    System.out.println( x: "Alamat : ");
    String alamat = sc.next();

    String query = "INSERT INTO mahasiswa(nama, nim, alamat) values ('" + nama + "' , '" + nim + "' , '" + alamat + "')";

    try {
        Connection con = DriverManager.getConnection(url,  user: USER,  password: PASS);
        Statement stat = con.createStatement();
        stat.execute( sql: query);
        System.out.println( x: "Sukses...");
    } catch(SQLException e) {
        e.printStackTrace();
        System.out.println( x: "Gagal...");
    }
}
```

METHOD UPDATE :

```
public static void update(){
    System.out.println( x: "Nama : ");
    String nama = sc.next();
    System.out.println( x: "Alamat : ");
    String alamat = sc.next();
    System.out.println( x: "NIM : ");
    String nim = sc.next();

    String query = "UPDATE mahasiswa SET nama = '" + nama + "' , alamat = '" + alamat + "' WHERE nim = '" + nim + "'";

    try {
        Connection con = DriverManager.getConnection(url,  user: USER,  password: PASS);
        Statement stat = con.createStatement();
        stat.execute( sql: query);
        System.out.println( x: "Sukses...");
    } catch(SQLException e) {
        e.printStackTrace();
        System.out.println( x: "Gagal...");
    }
}
```

METHOD DELETE :

```
public static void delete(){
    System.out.println( x: "NIM : ");
    String nim = sc.next();

    String query = "DELETE FROM mahasiswa where nim = '" + nim + "'";

    try {
        Connection con = DriverManager.getConnection(url,  user: USER,  password: PASS);
        Statement stat = con.createStatement();
        stat.execute( sql: query);
        System.out.println( x: "Sukses...");
    } catch(SQLException e) {
        e.printStackTrace();
        System.out.println( x: "Gagal...");
    }
}
```

METHOD SELECT :

```
public static void select(){
    String query = "SELECT * FROM mahasiswa";

    try {
        Connection con = DriverManager.getConnection(url,  user:USER,  password: PASS);
        Statement stat = con.createStatement();
        stat.execute( sql:query);
        ResultSet rs = stat.executeQuery( sql:query);
        while(rs.next()){
            System.out.println("nama\t:" + " " + String.valueOf( obj:rs.getObject( columnIndex:1)));
            System.out.println("nim\t:" + " " + String.valueOf( obj:rs.getObject( columnIndex:2)));
            System.out.println("alamat\t:" + " " + String.valueOf( obj:rs.getObject( columnIndex:3)));

            System.out.println();
        }
        System.out.println( x:"Sukses...");
    } catch(SQLException e) {
        e.printStackTrace();
        System.out.println( x:"Gagal...");
    }
}
```

METHOD SELESAI :

```
public static void selesai(){
    System.exit( status:0);
}
```

OUTPUT :

```
run:
PILIHAN
1. Insert
2. Update
3. Delete
4. Select
5. Selesai
Pilih :
```

INSERT :

```
Pilih :
1

Nama :
Arrio
NIM :
0004
Alamat :
Banyuwangi
Sukses...
```

UPDATE :

```
Pilih :
2

Nama :
Eka
Alamat :
Bwi
NIM :
0004
Sukses...
```

DELETE :

```
Pilih :
3

NIM :
0004
Sukses...
```

SELECT :

```
Pilih :
4

nama    : 0001
nim     : Rio
alamat  : Gedangan

nama    : 0002
nim     : Rio
alamat  : Candi

Sukses...
```

SELESAI :

```
Pilih :
5

BUILD SUCCESSFUL (total time: 6 minutes 12 seconds)
```