Laboratorium Informatika

Junior Project (Teknik Basis Data, Pemrograman Berbasis Objek)

Worksheet Responsi

RESPONSI

TUGAS WAJIB

Link Github: https://github.com/RaudhaSusanto/ResponsiJunproo.git

Screenshot file Tampilan:

Screenshot Konsep OOP (Enkapsulasi dan *Inheritance*):

```csharp
Karyawan editKaryawan;
1 reference
public Form1()
{
    InitializeComponent();
}


0 references
private void Form1_Load(object sender, EventArgs e)
{
    LoadData();
}
4 references
private void LoadData()
{
    DataTable data = DB.GetKaryawan();
    dgvKaryawan.DataSource = data;
}
1 reference
private void btnInsert_Click(object sender, EventArgs e)
{
    Karyawan karyawan = new Karyawan()
    {
        Nama = tbKaryawan.Text,
        Departemen = tbDepartemen.Text,
    };
    if (DB.InsertKaryawan(karyawan))
    {
        LoadData();
    }
}
```
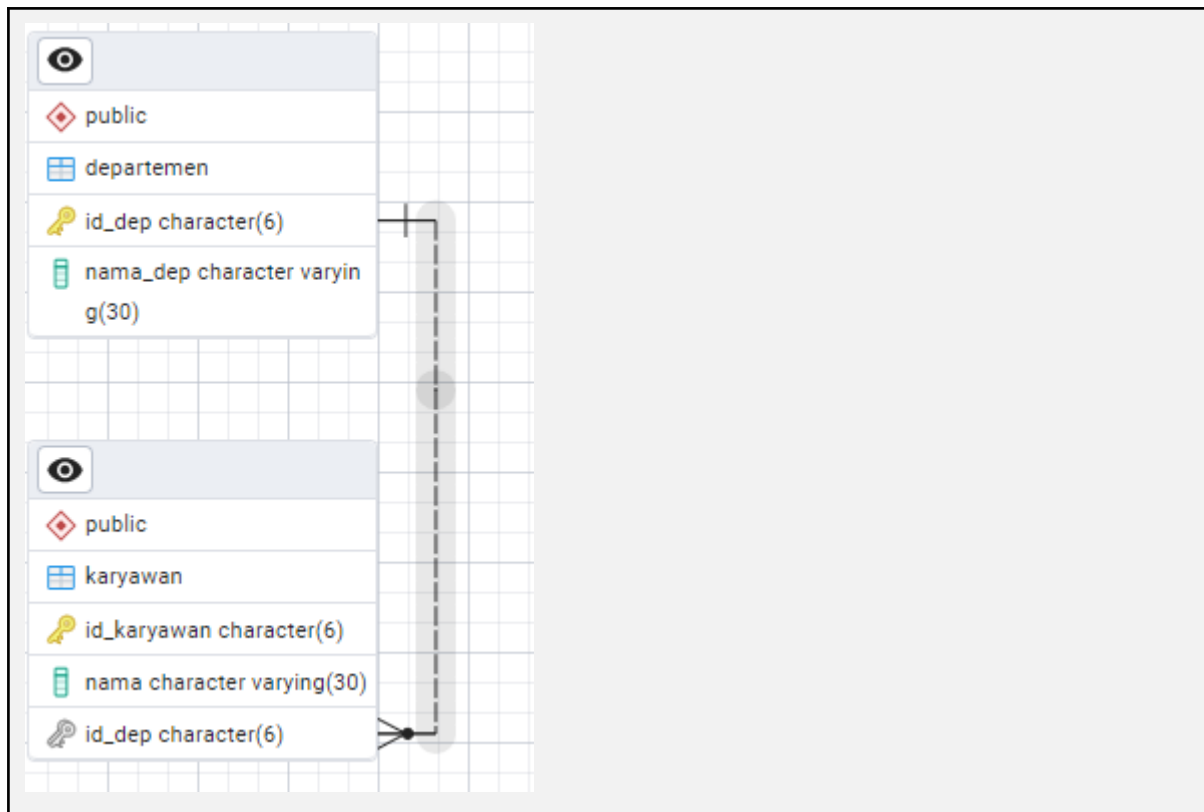
Screenshot ERD Databases pada PgAdmin (klik kanan databases -> ERD For Database):

Implementasi Kode CRUD:

```csharp
DataTable data = new DataTable();
try
{
    Conn.Open();
    var cmd = new NpgsqlCommand();
    cmd.Connection = Conn;
    cmd.CommandText = "SELECT * FROM karyawan INNER JOIN departemen ON karyawan.id_dep = departemen.id_dep";
    NpgsqlDataReader reader = cmd.ExecuteReader();
    data.Load(reader);
}
catch (Exception ex)
{
    MessageBox.Show("Error" + ex.Message);
}
finally
{
    Conn.Close();
}
return data;
```

TUGAS OPSIONAL

Screenshot Konsep OOP (Polimorfisme dan Abstraksi):

Screenshot Fungsi pada Postgres:

jabatan

public

jabatan

🔑 id_jabatan serial

nama_jabatan character varying(50)

salary numeric(12,2)

departemen

public

departemen

🔑 id_dep character(6)

nama_dep character varying(30)

karyawan

public

karyawan

🔑 id_karyawan character(6)

nama character varying(30)

🔑 id_dep character(6)

🔑 id_jabatan integer