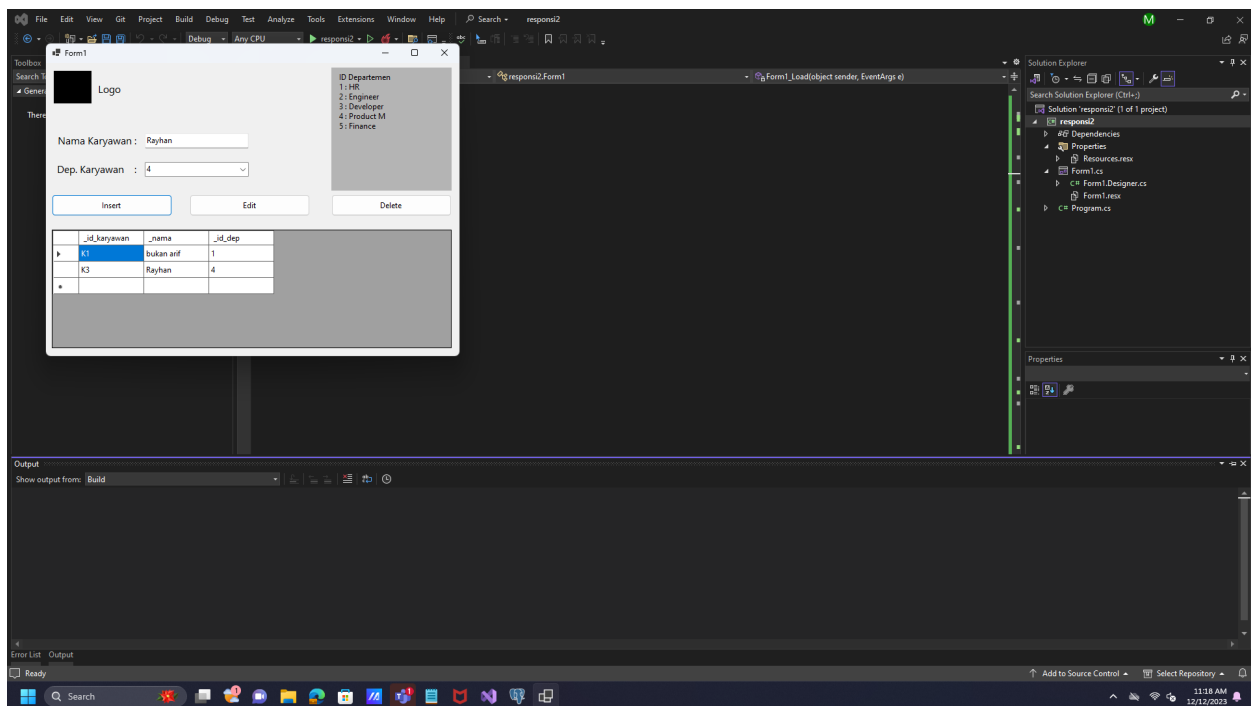
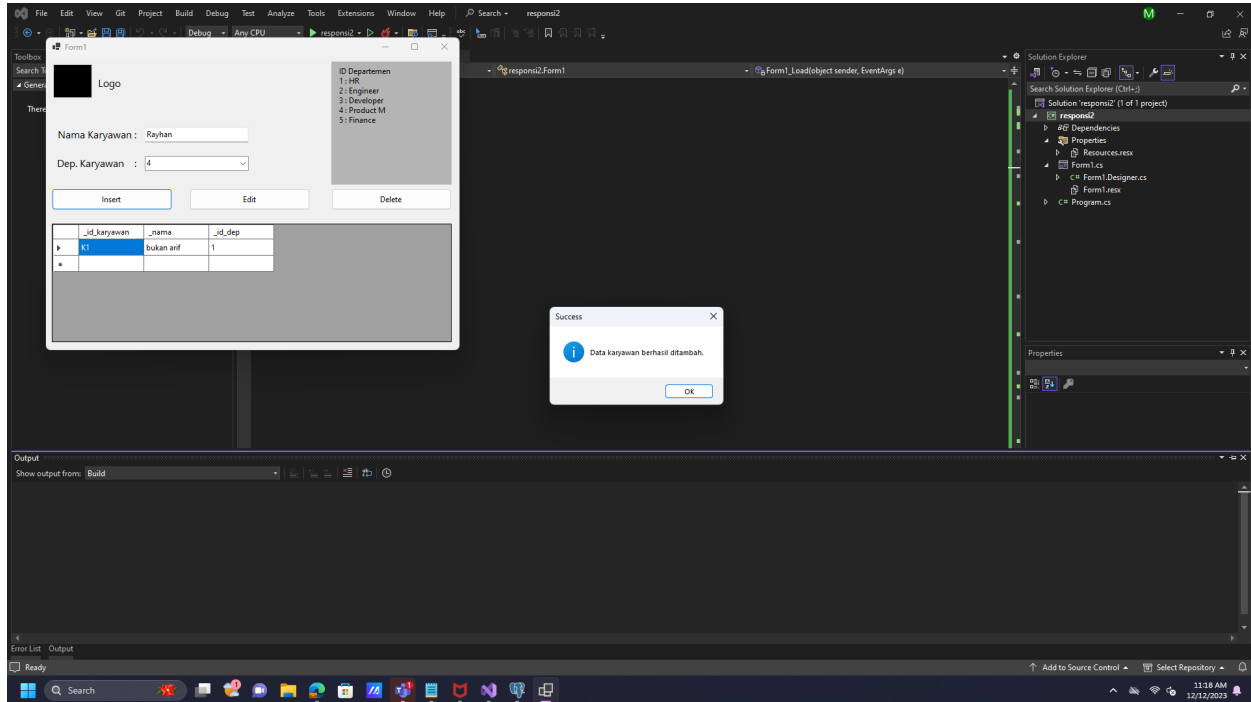


Nama: Moh Rizky Arif
NIM : 21/478613/TK/52741
Laporan Responsi 2 Junior Project

1. Insert



```

1 reference
private void btnInsert_Click(object sender, EventArgs e)
{
    try
    {
        conn.Open();
        sql = @"select * from k_insert(:_nama, :_id_dep)";
        cmd = new NpgsqlCommand(sql, conn);
        cmd.Parameters.AddWithValue("_nama", txtNama.Text);
        cmd.Parameters.AddWithValue("_id_dep", Int32.Parse(txtDep.Text));

        if ((int)cmd.ExecuteScalar() == 1)
        {
            MessageBox.Show("Data karyawan berhasil ditambah.", "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);
            conn.Close();
            load();
        }
        conn.Close();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

```

2. Update

Form1

Logo

Nama Karyawan : Fihimatika

Dep. Karyawan : 4

Insert Edit Delete


	_id_karyawan	_nama	_id_dep
	K1	bukan arif	1
▶	K3	Rayhan	4
*			

Success

i Data karyawan berhasil diedit.

OK

Form1



Logo

ID Departemen
1: HR
2: Engineer
3: Developer
4: Product M
5: Finance

Nama Karyawan :

Dep. Karyawan :

Insert Edit Delete

	_id_karyawan	_nama	_id_dep
▶	K1	bukan arif	1
	K3	Fihimatika	4
*			

```
private void btnEdit_Click(object sender, EventArgs e)
{
    if (id_karyawan.Length <= 0)
    {
        MessageBox.Show("tolong pilih yang mau diedit dengan klik cel yang ingin diedit");
        return;
    }
    try
    {
        conn.Open();
        sql = @"select * from k_update(:_id_karyawan,:_nama,:_id_dep)";
        cmd = new NpgsqlCommand(sql, conn);
        cmd.Parameters.AddWithValue("_id_karyawan", id_karyawan);
        cmd.Parameters.AddWithValue("_nama", txtNama.Text);
        cmd.Parameters.AddWithValue("_id_dep", Int32.Parse(txtDep.Text));

        if ((int)cmd.ExecuteScalar() == 1)
        {
            MessageBox.Show("Data karyawan berhasil diedit.", "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);
            conn.Close();
            load();
        }
        conn.Close();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}
```

3. Delete

Form1

Logo

Nama Karyawan :

Dep. Karyawan :

Insert

Edit

Delete

ID Departemen

1 : HR

2 : Engineer

3 : Developer

4 : Product M

5 : Finance

	_id_karyawan	_nama	_id_dep
	K1	bukan arif	1
▶	K3	Fihimatika	4
*			

Success

i

Data karyawan berhasil dihapus.

OK

Form1

Logo

Nama Karyawan :

Dep. Karyawan :

Insert

Edit

Delete

ID Departemen

1 : HR

2 : Engineer

3 : Developer

4 : Product M

5 : Finance

	_id_karyawan	_nama	_id_dep
▶	K1	bukan arif	1
*			

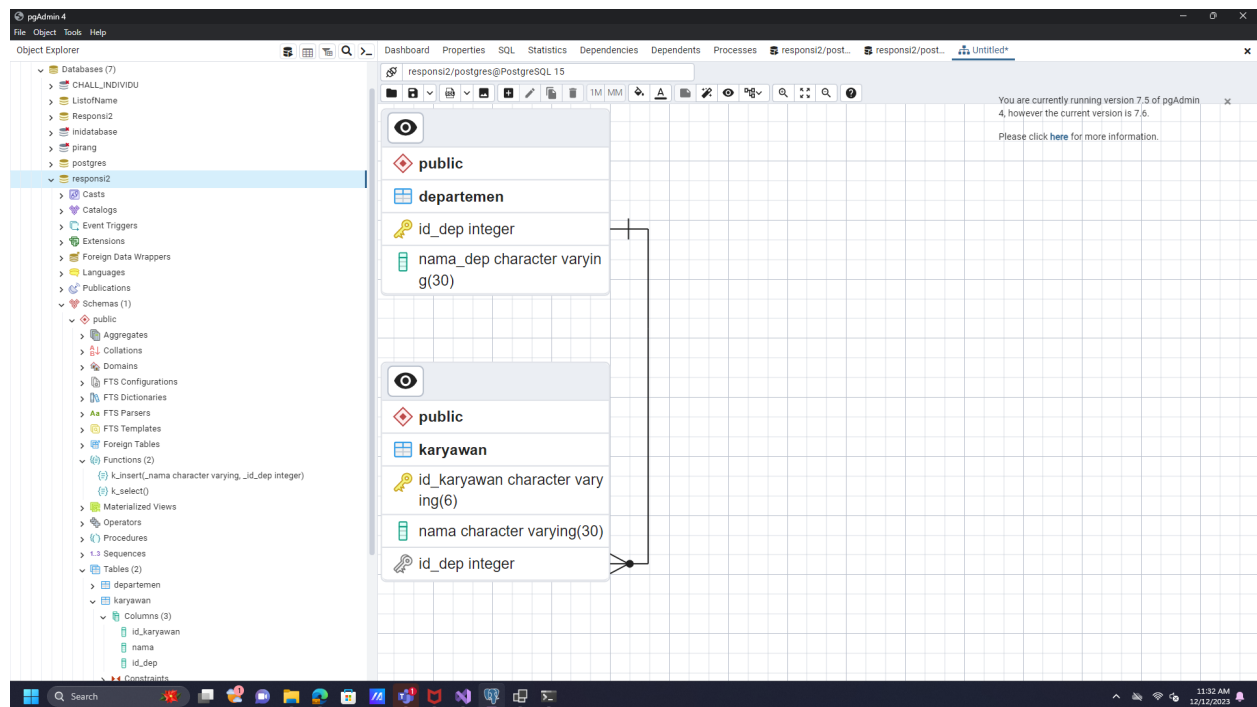
```

private void btnDelete_Click(object sender, EventArgs e)
{
    if (id_karyawan.Length <= 0)
    {
        MessageBox.Show("tolong pilih yang mau didelete dengan klik cel yang ingin didelete");
        return;
    }
    try
    {
        conn.Open();
        sql = @"select * from k_delete(:_id_karyawan)";
        cmd = new NpgsqlCommand(sql, conn);
        cmd.Parameters.AddWithValue("_id_karyawan", id_karyawan);

        if ((int)cmd.ExecuteScalar() == 1)
        {
            MessageBox.Show("Data karyawan berhasil dihapus.", "Success", MessageBoxButtons.OK, MessageBoxIcon.Information);
            conn.Close();
            load();
        }
        conn.Close();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }
}

```

ERD



Sql functions

INSERT

...

create or replace function k_insert(_nama varchar, _id_dep int)

returns int as

,

begin

insert into public.karyawan(nama, id_dep)
values (_nama, _id_dep);

if found then

return 1;

else

return 0;

end if;

end

,

language plpgsql;

...

UPDATE

...

```

create or replace function k_update(_id_karyawan varchar, _nama
varchar, _id_dep int)
returns int as
,
begin
    update public.karyawan SET nama = _nama, id_dep = _id_dep where
id_karyawan = _id_karyawan;
    if found then
        return 1;
    else
        return 0;
    end if;
end
,
language plpgsql;
'''

```

DELETE

```

'''
create or replace function k_delete(_id_karyawan varchar)
returns int as
,
begin
    delete from public.karyawan where id_karyawan = _id_karyawan;
    if found then
        return 1;
    else
        return 0;
    end if;
end
,
language plpgsql;
'''

```

SELECT

```

'''
create function k_select()
returns table
(_id_karyawan varchar, _nama varchar, _id_dep int)
language plpgsql as

```

```
'  
begin  
    return query select id_karyawan, nama, id_dep from  
public.karyawan;  
end  
'  
'''
```