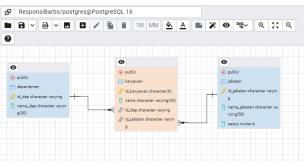
DOKUMENTASI RESPONSI JUNIOR PROJECT

Barbara Neanake Ajiesti 22/494495/TK/54238

1. Database & ERD

Beserta Code query database lengkap

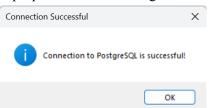


```
CREATE SEQUENCE dep_id START 1;
CREATE TABLE departemen (
    id dep CHARACTER VARYING PRIMARY KEY,
    nama dep CHARACTER VARYING(30)
);
CREATE SEQUENCE jabatan id START 1;
CREATE TABLE jabatan (
   id jabatan SERIAL DEFAULT 'K-' ||
NEXTVAL('users id') PRIMARY KEY,
    nama_jabatan VARCHAR(30),
    salary NUMERIC(12,2)
);
CREATE SEQUENCE users id START 1;
CREATE TABLE karyawan (
   id karyawan CHARACTER(6) DEFAULT 'K-'
|| NEXTVAL('users_id') PRIMARY KEY,
    nama VARCHAR(30),
    id dep CHARACTER VARYING REFERENCES
departemen (id dep)
--KaryawanSelect
CREATE OR REPLACE FUNCTION kr select()
RETURNS TABLE (
    _id_karyawan CHARACTER,
    _nama CHARACTER VARYING,
    _id_dep CHARACTER VARYING
    nama dep CHARACTER VARYING
```

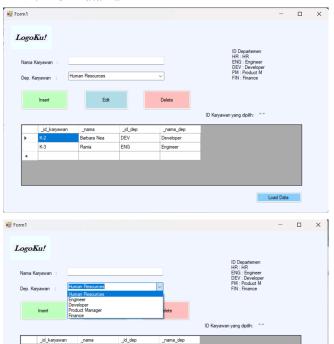
```
LANGUAGE plpgsql AS $$
BEGIN
    RETURN QUERY
    SELECT
        karyawan.id karyawan,
        karyawan.nama,
        departemen.id dep,
        departemen.nama dep
    FROM departemen
    JOIN karyawan ON karyawan.id dep =
departemen.id dep;
$$;
--KaryawanInsert
CREATE OR REPLACE FUNCTION kr insert(
    _nama CHARACTER VARYING,
    _id_dep CHARACTER VARYING
RETURNS INT AS $$
BEGIN
    INSERT INTO public.karyawan (nama,
id dep)
    VALUES (_nama, _id_dep);
    RETURN 1;
EXCEPTION
    WHEN OTHERS THEN
        RETURN 0;
END:
$$ LANGUAGE plpgsql;
--KaryawanUpdate
CREATE OR REPLACE FUNCTION kr update (
    _id_karyawan CHARACTER,
    _nama CHARACTER VARYING,
    _id_dep CHARACTER VARYING
RETURNS INT AS $$
BEGIN
    UPDATE karyawan
    SET
        nama = _nama,
id_dep = _id_dep
    WHERE id karyawan = id karyawan;
    RETURN 1;
EXCEPTION
    WHEN OTHERS THEN
        RETURN 0;
$$ LANGUAGE plpgsql;
--DepartemenInsert
INSERT INTO departemen (id dep, nama dep)
VALUES
('HR', 'Human Resources'),
('ENG', 'Engineer'),
('DEV', 'Developer'),
('PM', 'Product Manager'),
('FIN', 'Finance');
--KaryawanDelete
CREATE OR REPLACE FUNCTION kr delete(
    _id_karyawan CHARACTER VARYING
RETURNS INT AS $$
BEGIN
    DELETE FROM public.karyawan
    WHERE id karyawan = id karyawan;
    RETURN 1;
EXCEPTION
    WHEN OTHERS THEN
        RETURN 0:
END:
$$ LANGUAGE plpgsql;
```

2. Fungsionalitas

A. Pop-up database terhubung

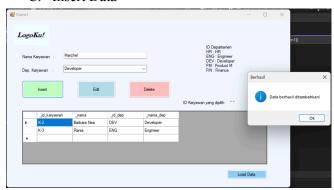


B. Form utama

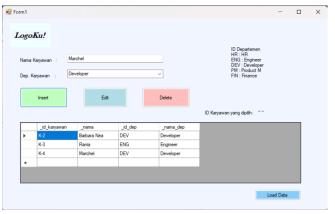


C. Insert Data

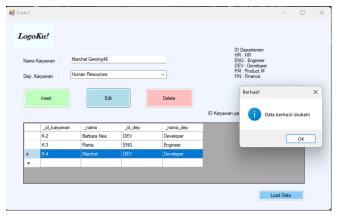
ENG



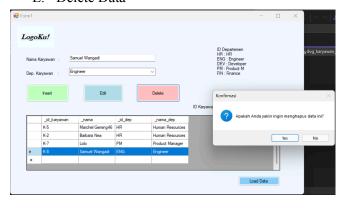
Load Data



D. Edit Data



E. Delete Data



3. OOP Concept

A. Inheritance

B. Polymorphism

C. Encapsulation

D. Polymorphism