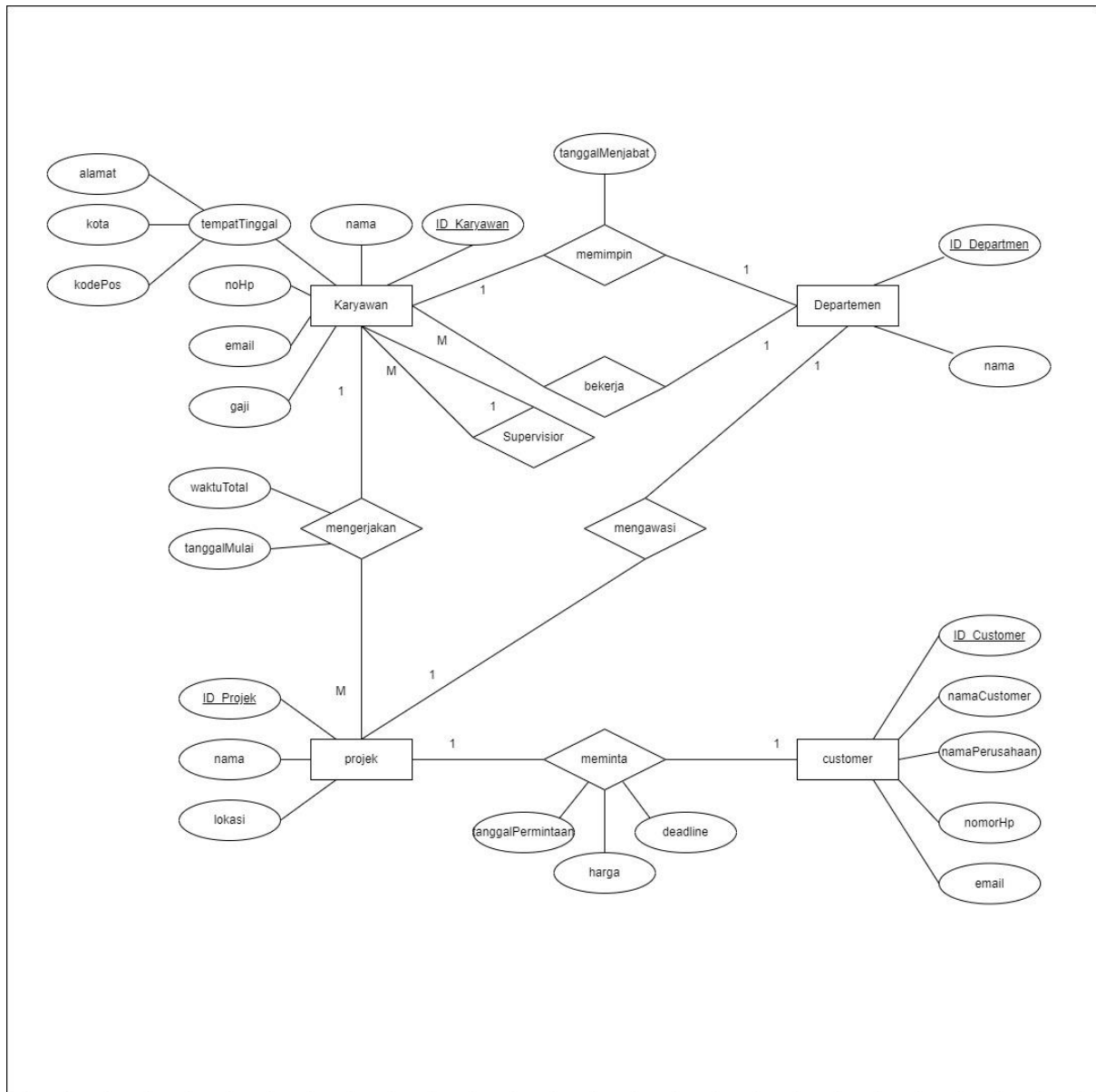


Nama: Nisa'ul Fadhillah

NIM: 00000060236

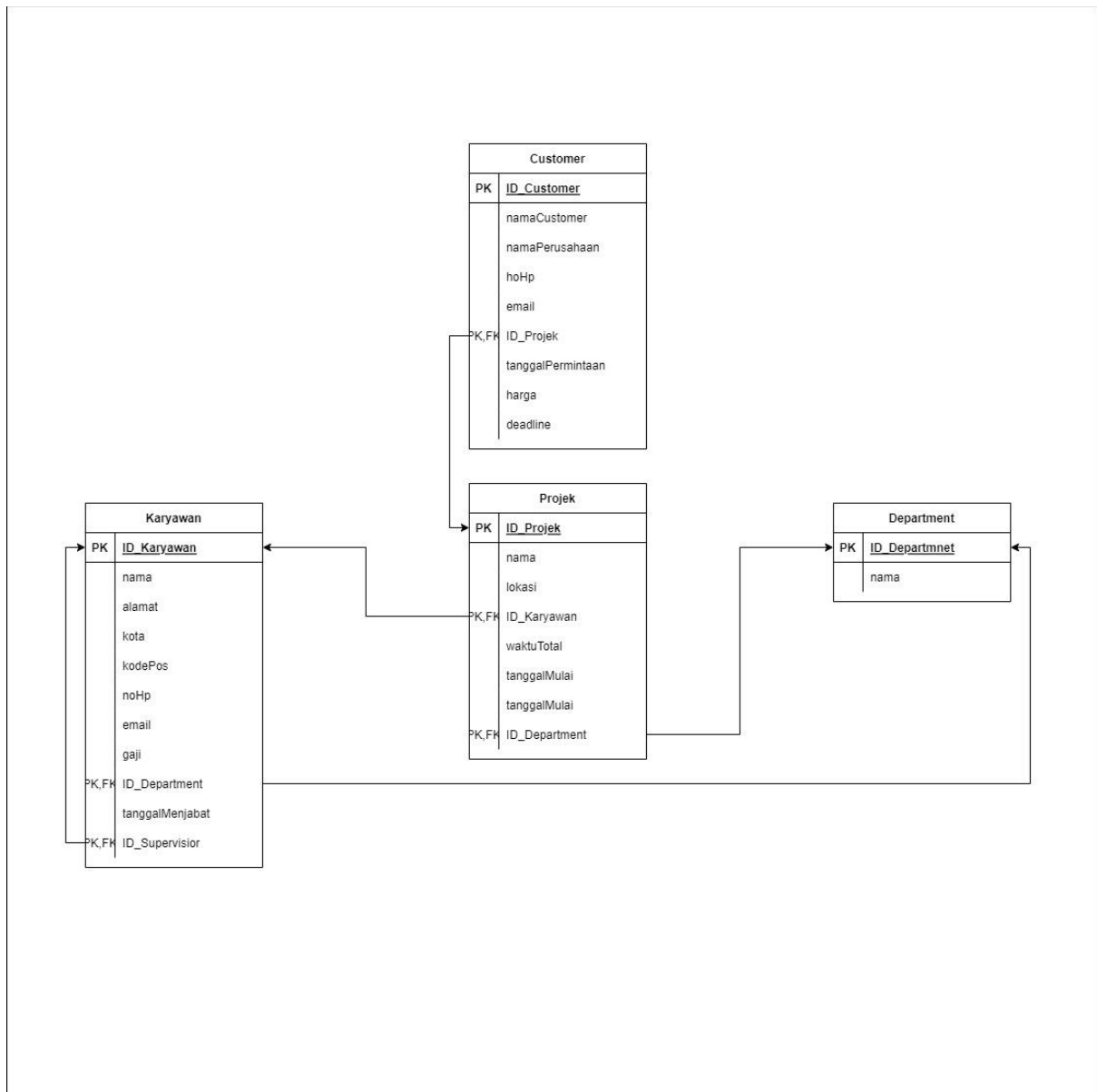
Sub-CPMK 2

Rancanglah conceptual schema dengan menggambarkan Entity-Relationship Diagram (ERD).



Sub-CPMK 4

Dengan melakukan ER-to-Relational mapping, buatlah relational database schema berdasarkan ERD yang telah dibuat.



Sub-CPMK 5 – 6

Tuliskan DDL statements untuk membuat setiap tabel yang terdapat pada database schema yang telah dibuat.

Tuliskan DML statements untuk memasukkan 2 baris data ke dalam setiap tabel tersebut.

```
CREATE DATABASE company;
```

```
USE company;
```

```
CREATE TABLE department(  
    id_department CHAR(5) PRIMARY KEY,  
    nama VARCHAR(20) NOT NULL,  
    UNIQUE (nama)  
);
```

```
CREATE TABLE karyawan(  
    id_karyawan CHAR(5) PRIMARY KEY,  
    nama VARCHAR(38) NOT NULL,  
    alamat VARCHAR(60) NOT NULL,  
    kota VARCHAR(30) NOT NULL,  
    kode_pos CHAR(5) NOT NULL,  
    no_hp CHAR(12) NOT NULL,  
    email VARCHAR(50) NOT NULL,  
    gaji INTEGER NOT NULL,  
    tanggal_menjabat DATE NOT NULL,  
    id_department CHAR(5),  
    id_supervisor CHAR(5),
```

```
FOREIGN KEY (id_department) REFERENCES department
(id_department),
FOREIGN KEY (id_supervisor) REFERENCES karyawan (id_karyawan)
);
```

```
CREATE TABLE proyek(
id_projek CHAR(5) PRIMARY KEY,
nama VARCHAR(100) NOT NULL,
lokasi VARCHAR(100) NOT NULL,
waktu_total TIME NOT NULL,
tanggal_mulai DATE NOT NULL,
id_karyawan CHAR(5),
id_department CHAR(5),
FOREIGN KEY (id_karyawan) REFERENCES karyawan (id_karyawan),
FOREIGN KEY (id_department) REFERENCES department
(id_department)
);
```

```
CREATE TABLE customer(
id_customer CHAR(5) PRIMARY KEY,
nama_customer VARCHAR(40) NOT NULL,
nama_perusahaan VARCHAR(50) NOT NULL,
no Hp CHAR(12) NOT NULL,
email VARCHAR(50) NOT NULL,
tanggal_permintaan DATE NOT NULL,
```

```
harga INTEGER NOT NULL,  
deadline DATE NOT NULL,  
id_projek CHAR(5),  
FOREIGN KEY (id_projek) REFERENCES projek (id_projek)  
);
```

```
SHOW TABLES;
```

```
INSERT INTO department(id_department, nama)  
VALUES ('D0001', 'Programmer'),  
('D0002', 'Project Manager'),  
('D0003', 'System Analist'),  
('D0004', 'Product Owner'),  
('D0005', 'Tester');
```

```
INSERT INTO karyawan (id_karyawan, nama, alamat, kota,  
kode_pos, no_hp, email, gaji, tanggal_menjabat,  
id_department, id_supervisor)  
VALUES ('K0001', 'Adam Idris', 'Jl. Scientia Boulevard, Gading  
Serpong', 'Tangerang Selatan', '15810', '02154220808',  
'adam.idris@gmail.com', 5000000, '2003-02-10', 'D0001',  
'K0001'),  
('K0002', 'Nuh Hud Sholeh', 'Pondok Cina, Beiji, Depok', 'Jawa  
Barat', '16424', '0217867222', 'hudnuh@yahoo.com', 5500000,  
'2003-01-14', 'D0002', 'K0001'),  
('K0003', 'Ibrahim Luth Ismail', 'Jl. Dipati Ukur No 35, Lebak  
Gede kecamatan Coblong, Bandung', 'Jawa Barat', '40132',
```

```
'02198895665', 'ibrahimisaiilluth@gmail.com', 4500000, '2002-10-16', 'D0003', 'K0001' ),
```

```
('K0004', 'Ishak Yakub', 'Jl. Let. Jend. Purn. Dr (HC) Mashudi No 1, Sayang, Kec Jatinangor Kabupaten Sumedang', 'Jawa Barat', '45363', '085635210987', 'yakubishak@gmail.com', 4000000, '2000-03-10', 'D0004', 'K0002'),
```

```
( 'K0005', 'Yusuf Ayub', 'Ruko prominence Blok 38-G No 50 Panunggangan', 'Tangerang', '15143', '092390873109', 'yusuf.ayub@gmail.com', 5000000, '2003-08-17', 'D0005', 'K0002');
```

```
INSERT INTO projek (id_projek, nama, lokasi, waktu_total, tanggal_mulai, id_karyawan, id_department)
```

```
VALUES('P0001', 'E-Learning', 'BSD Tangerang', '800:59:59', '2022-10-01', 'K0001', 'D0001'),
```

```
('P0002', 'E-Commerce abu-abu', 'Gading Serpong', '830:59:59', '2002-09-25', 'K0002', 'D0002');
```

```
INSERT INTO customer(id_customer, nama_customer, nama_perusahaan, no Hp, email, tanggal_permintaan, harga, deadline, id_projek)
```

```
VALUES('C0001', 'Magenta Surya', 'Digitalizm corrporation', '082198654556', 'suryamagenta@gmail.com', '2022-07-30', 10000000, 2023-01-10, 'P0001'),
```

```
('C0002', 'Matahari Jingga', 'Azizi Corp', '089278210945', 'jinggamata@mail.com', '2022-08-10', 11000000, '2023-02-10', 'P0002');
```

```
SELECT id_karyawan, nama, alamat, kota, kode_pos, no_hp,  
email, gaji, tanggal_menjabat, id_department, id_supervisor  
FROM karyawan;
```

```
SELECT id_projek, nama, lokasi, waktu_total, tanggal_mulai,  
id_karyawan, id_department  
FROM projek;
```

```
SELECT id_customer, nama_customer, nama_perusahaan, no_hp,  
email, tanggal_permintaan, harga, deadline, id_projek  
FROM customer;
```

```
SELECT id_department, nama  
FROM department;
```