Real Estate Firm Database

1. Menentukan entitas

* Sales\_offices
* Employees
* Relationship
* Clients
* Properties
* Ownership

1. Menentukan atribut

* Sales\_offices : off\_number, off\_address, off\_city, off\_state, off\_zip, manager\_id
* Employees : emp\_id, emp\_name, emp\_id\_numb, so\_id
* Relationship : emp1\_id, emp2\_id, marriage\_date
* Clients : client\_id, client\_name, client\_id\_numb
* Properties : prop\_id, prop\_address, prop\_city, prop\_state, prop\_zip, prop\_so\_id
* Ownership : prop\_id, owner\_id, percent\_owned

1. Menentukan relasi

Sales\_offices (1) ------------- (M) employees

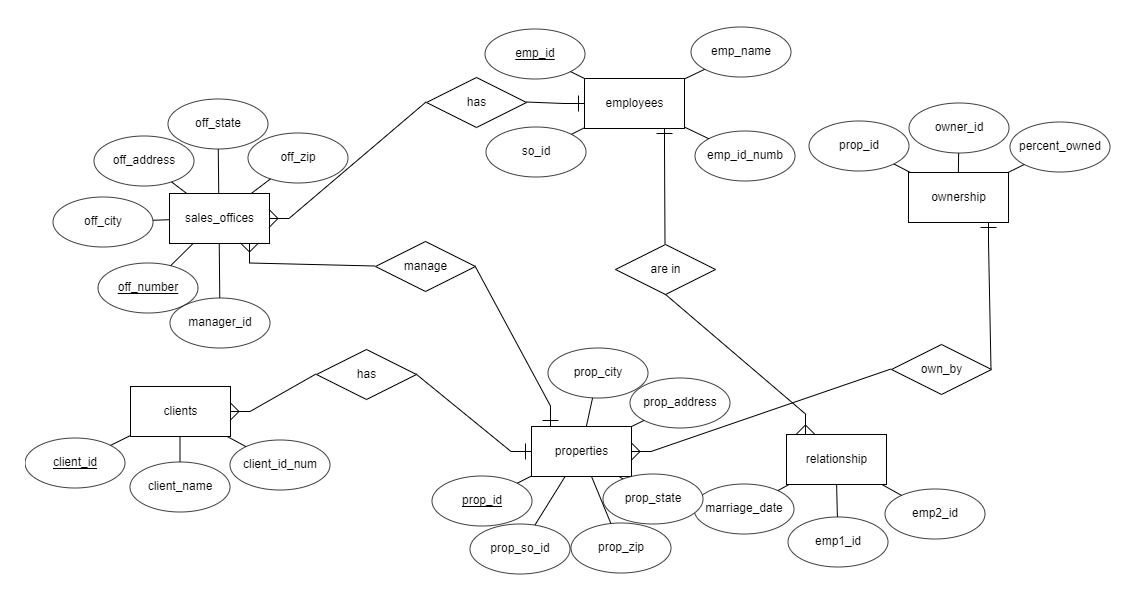
Relationship (1) ---------------- (M) employees

Clients (1) ----------------- (M) properties

Ownership (M) --------------- (1) properties

Sales\_offices (1) -------------- (0 - M) properties

1. ERD



1. Table atribut

* Sales\_offices

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| off\_number | Int | - | Primary key, auto inc |
| off\_address | Varchar | 100 |  |
| off\_city | Varchar | 50 |  |
| off\_state | Varchar | 50 |  |
| off\_zip | int | - |  |
| manager\_id | Int | - | Foreign key, manager kantor wilayah |

* Employees

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| emp\_id | Int | - | Primary key, auto inc |
| emp\_name | Varchar | 100 |  |
| emp\_id\_numb | Int | - |  |
| so\_id | Int | - | Foreign key, tempat kerja karyawan |

* Relationship

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| emp1\_id | Int | - | Foreign key, pasangan dari emp2 |
| emp2\_id | Int | - | Foreign key, pasangan dari emp1 |
| marriage\_date | Date | - | Tanggal emp1 dan emp2 menikah |

* Clients

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| client\_id | Int | - | Primary key, auto inc |
| client\_name | Varchar | 100 |  |
| client\_id\_numb | Int | - | Identitas klien (ktp, etc) |

* Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| prop\_id | Int | - | Primary key, auto inc |
| prop\_address | Varchar | 100 |  |
| prop\_city | Varchar | 50 |  |
| prop\_state | Varchar | 50 |  |
| prop\_zip | Int | - |  |
| prop\_so\_id | Int | - | Foreign key, id kantor wilayah pengurus |

* Ownership

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute\_name | Type | Size | Description |
| prop\_id | Int | - | Foreign key |
| owner\_id | Int | - | Foreign key |
| percent\_owned | Float | - | Presentase kepemilikan |

Q2 Answer:

1. Tidak adanya kardinalitas didalam erd tersebut
2. Kurang lengkapnya atribut dan tidak adanya primary key (entah erd belum selesai)
3. Nama atribut dan nama entitas terdiri dari 3 kata
4. Nama relasi bukan kata kerja

