

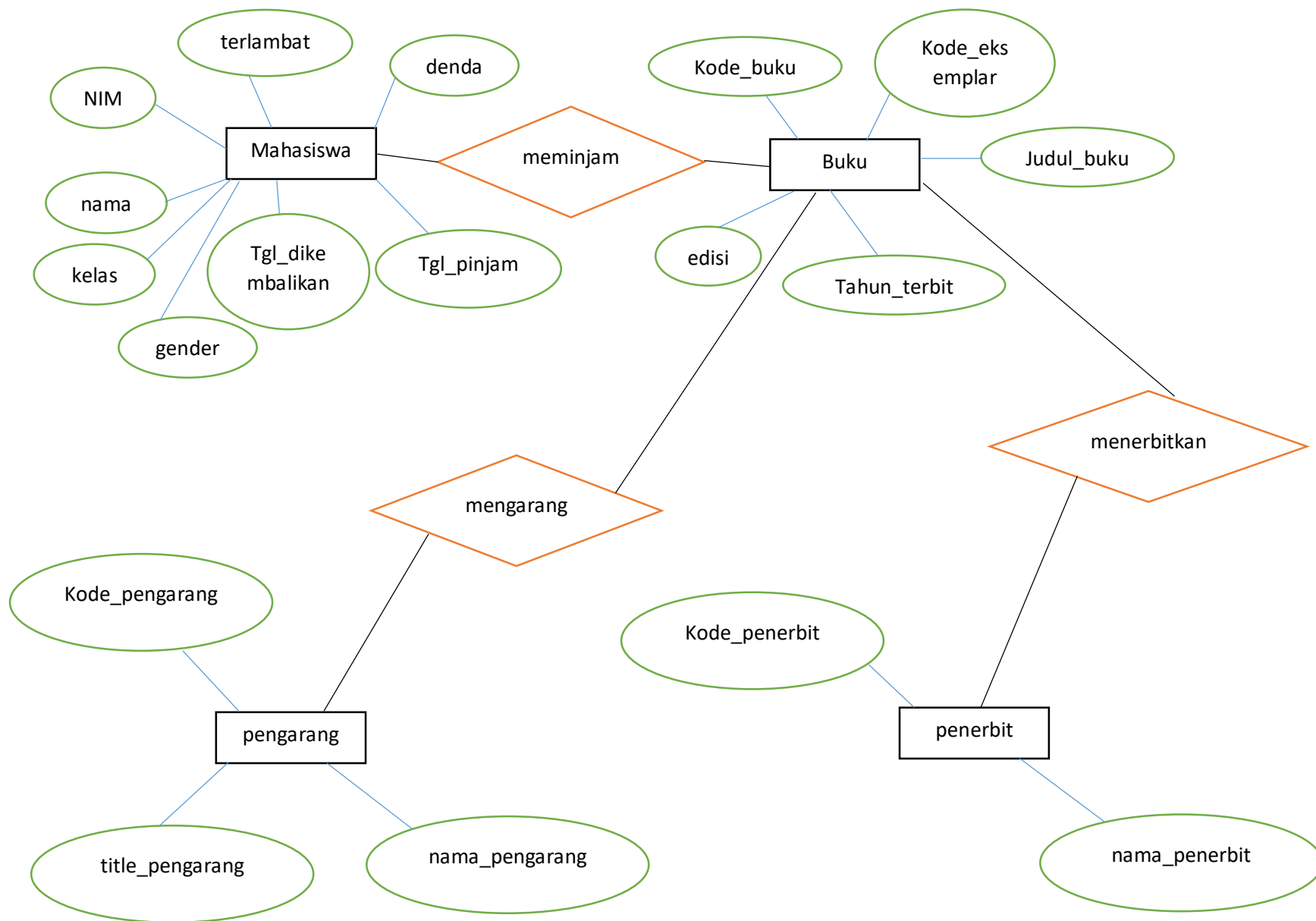
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Kelas : A

#### Uts Praktikum SBD

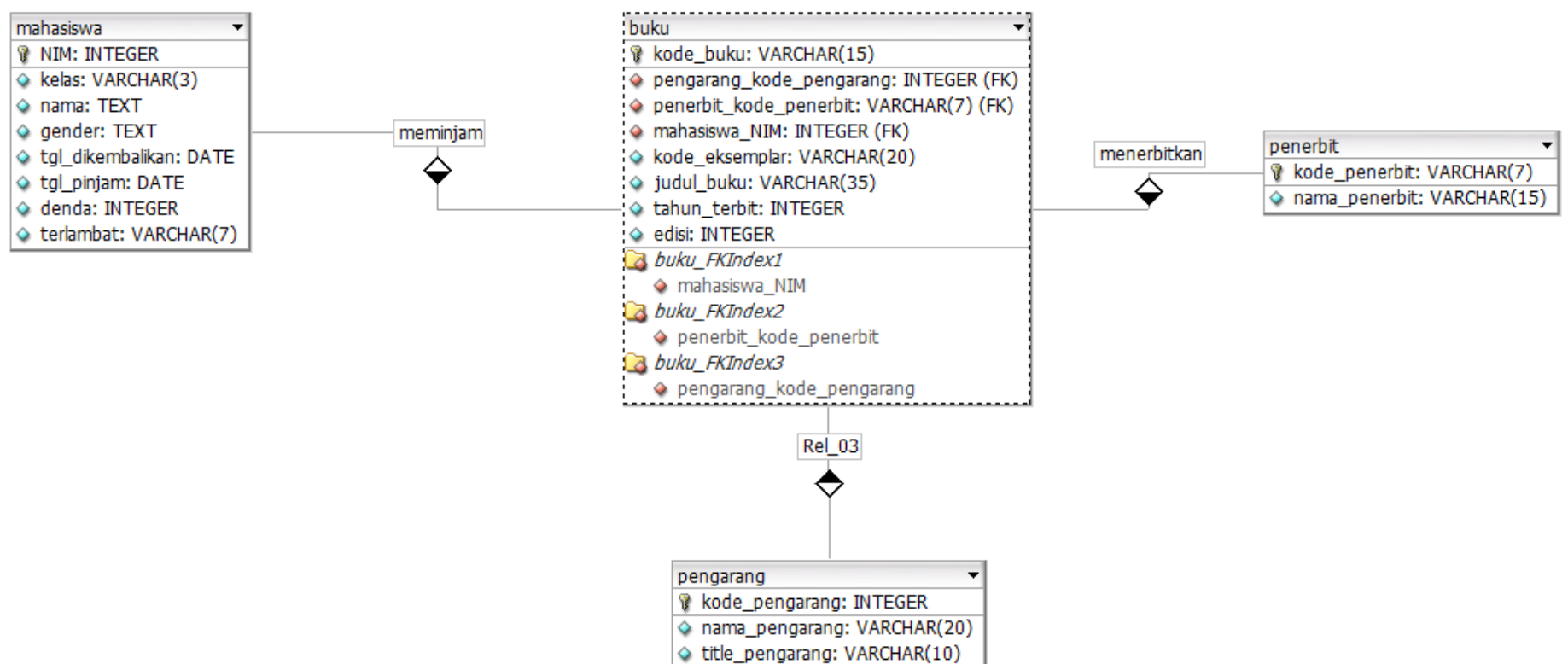
##### 1. Membuat diagram erd



##### 2. Menyebutkan relasi

- Mahasiswa** meminjam **buku** : 1:n (one to many)
- Pengarang** mengarang **buku** : 1:n (one to many)
- Penerbit** menerbitkan **buku** : 1:n (one to many)

##### 3. Membuat rancangan ERD



#### 4. Membuat table

##### a. Mahasiswa

```

MariaDB [uts]> create table mahasiswa
-> (
-> nim integer primary key,
-> kelas varchar(3)
-> ,
-> nama text,
-> gender text,
-> tgl_dikembalikan date,
-> tgl_pinjam date,
-> denda integer,
-> terlambat varchar(7)
-> );
  
```

##### b. Penerbit

```

MariaDB [uts]> create table penerbit(
-> kode_penerbit varchar(7) primary key,
-> nama_penerbit varchar(7));
Query OK, 0 rows affected (0.29 sec)
  
```

##### c. Pengarang

```

MariaDB [uts]> create table pengarang(
-> kode_pengarang integer primary key,
-> nama_pengarang varchar(20),
-> title_pengarang varchar(10));
Query OK, 0 rows affected (0.56 sec)
  
```

##### d. Buku

```

MariaDB [uts]> create table buku(
-> kode_buku varchar(15) primary key,
-> kode_eksemplar varchar(20),
-> judul_buku varchar(35),
-> tahun_terbit integer,
-> edisi integer,
-> kodepengarangFK integer references pengarang(kode_pengarang),
-> kodepenerbitFK varchar(7) references penerbit(kode_penerbit),
-> NIMFK integer references mahasiswa(NIM));
Query OK, 0 rows affected (0.58 sec)
  
```

#### 5. Melakukan modifikasi data

##### a. Mahasiswa

```

MariaDB [uts]> insert into mahasiswa values(12,'18A','resky','L', '2000-12-20' , '2000-12-18', 0, '0hari'),
-> (13, '18B','budi','L', '2000-12-20', '2000-12-10', 10000, '5hari'),
-> (14, '18C','siti','P', '2000-12-20', '2000-12-09', 12000, '6hari'),
-> (15, '18D','ningsih','P', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (95, '19D','puti','P', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (96, '19A','haruka','P', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (97, '19B','vanka','P', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (98, '19C','steven','L', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (99, '19D','parker','L', '2000-12-20', '2000-12-08', 14000, '4hari'),
-> (94, '19E','andre','L', '2000-12-20', '2000-12-08', 14000, '4hari');
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0
  
```

b. Penerbit

```
MariaDB [uts]> insert into penerbit values
-> ('gra01', 'gramedia'),
-> ('gra02', 'gramedia'),
-> ('gra03', 'gramedia'),
-> ('gra04', 'gramedia'),
-> ('gra05', 'gramedia'),
-> ('ts1', 'tiga serangkai'),
-> ('ts2', 'tiga serangkai'),
-> ('ts3', 'tiga serangkai'),
-> ('ts4', 'tiga serangkai'),
-> ('ts5', 'tiga serangkai');
Query OK, 10 rows affected, 10 warnings (0.06 sec)
Records: 10 Duplicates: 0 Warnings: 10
```

c. Pengarang

```
MariaDB [uts]> insert into pengarang values
-> (001,'resky', 's.kom'),
-> (002,'budi', 's.kom'),
-> (003,'nugroho', 's.kom'),
-> (004,'nugroho', 'm.kom'),
-> (005,'budi', 'm.kom'),
-> (006,'resky', 'm.kom'),
-> (007,'budi', 's.psi'),
-> (008,'nugroho', 's.psi'),
-> (009,'resky', 's.psi'),
-> (010,'nugroho', 'm.psi');
Query OK, 10 rows affected (0.07 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

d. Buku

```
MariaDB [uts]> insert into buku values
-> ('001.01/rs', '001.01/rs/001', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/002', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/003', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/004', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/005', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/006', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/007', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/008', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/009', 'buku keren sedunia', 2020,1,001,'grad01',13),
-> ('001.01/rs', '001.01/rs/010', 'buku keren sedunia', 2020,1,001,'grad01',13);
Query OK, 10 rows affected (0.06 sec)
Records: 10 Duplicates: 0 Warnings: 0
```