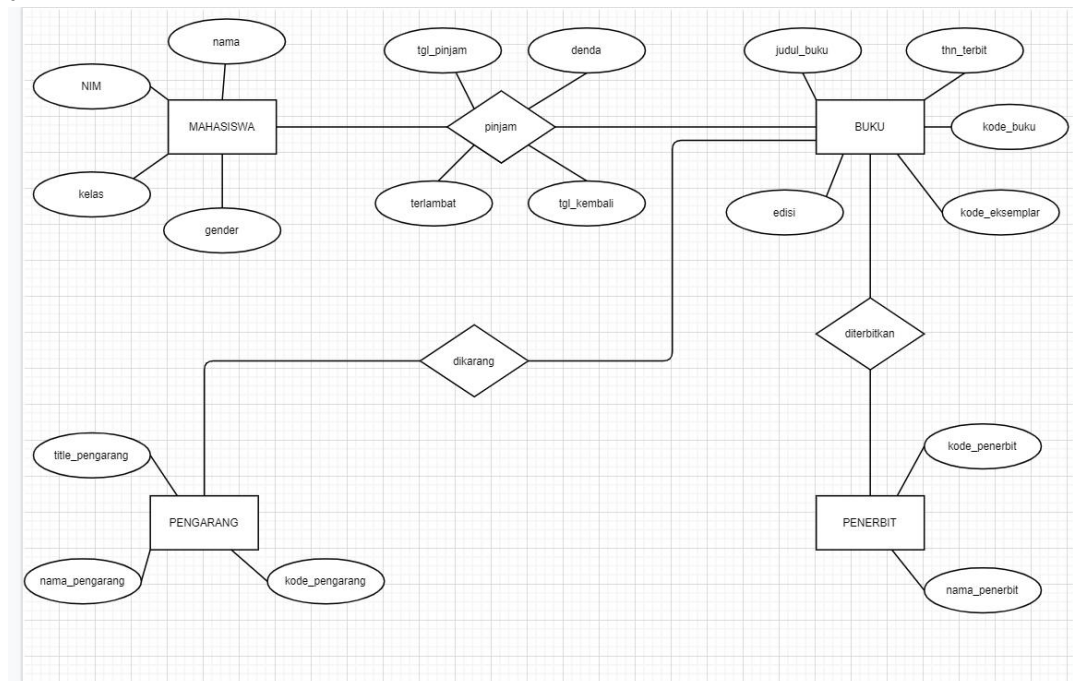


Nama : Auzan Danar Kusuma
 NIM : L200180005
 Kelas : A

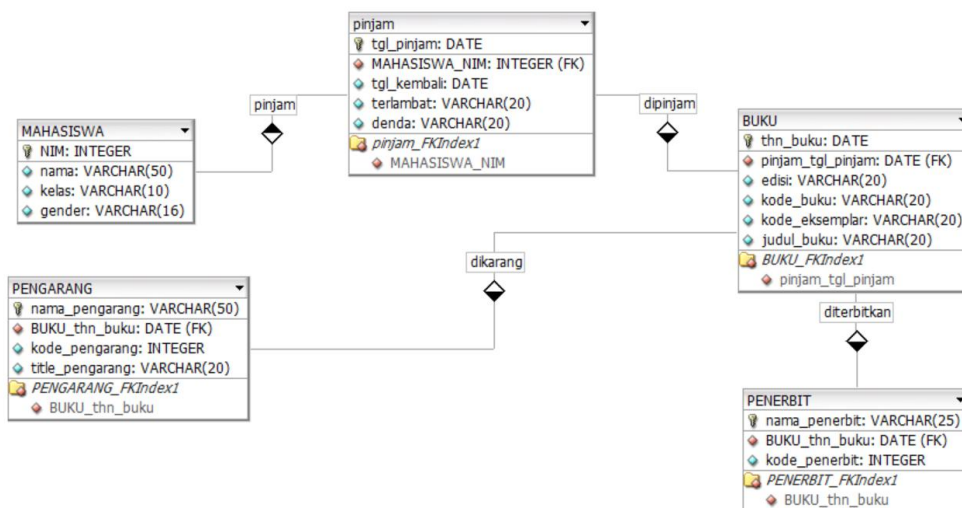
a.



b. Relationship antar entity

1. Mahasiswa pinjam Buku = One to Many (1:n)
2. Penerbit menerbitkan Buku = One to Many (1:n)
3. Pengarang mengarang Buku = One to Many (1:n)

c.



d.

```
MariaDB [(none)]> create database perpustakaan;  
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [(none)]> show databases;
```

```
-----  
| Database |  
-----  
| information_schema |  
| mysql |  
| performance_schema |  
| perpustakaan |  
| phpmyadmin |  
| test |  
-----  
6 rows in set (0.001 sec)
```

```
MariaDB [(none)]> use perpustakaan
```

```
Database changed
```

```
MariaDB [perpustakaan]> CREATE TABLE mahasiswa(  
-> NIM INTEGER PRIMARY KEY,  
-> nama VARCHAR(50) NOT NULL,  
-> kelas VARCHAR(10) NOT NULL,  
-> gender VARCHAR(15) NOT NULL);  
Query OK, 0 rows affected (0.449 sec)
```

```
MariaDB [perpustakaan]> desc mahasiswa;
```

```
-----  
| Field | Type | Null | Key | Default | Extra |  
-----  
| NIM | int(11) | NO | PRI | NULL | |  
| nama | varchar(50) | NO | | NULL | |  
| kelas | varchar(10) | NO | | NULL | |  
| gender | varchar(15) | NO | | NULL | |  
-----  
4 rows in set (0.186 sec)
```

```
MariaDB [perpustakaan]> CREATE TABLE pinjam(  
-> tgl_pinjam DATE NOT NULL,  
-> tgl_kembali DATE NOT NULL,  
-> terlambat VARCHAR(20) NOT NULL,  
-> denda VARCHAR(20) NOT NULL);  
Query OK, 0 rows affected (0.459 sec)
```

```
MariaDB [perpustakaan]> desc pinjam;
```

```
-----  
| Field | Type | Null | Key | Default | Extra |  
-----  
| tgl_pinjam | date | NO | | NULL | |  
| tgl_kembali | date | NO | | NULL | |  
| terlambat | varchar(20) | NO | | NULL | |  
| denda | varchar(20) | NO | | NULL | |  
-----  
4 rows in set (0.057 sec)
```

```
MariaDB [perpustakaan]> CREATE TABLE buku(  
-> kode_buku INTEGER PRIMARY KEY,  
-> kode_eksemplar INTEGER NOT NULL,  
-> judul_buku VARCHAR(20) NOT NULL,  
-> tahun_buku INTEGER NOT NULL);  
Query OK, 0 rows affected (0.427 sec)
```

```
MariaDB [perpustakaan]> desc buku;
```

```
-----  
| Field | Type | Null | Key | Default | Extra |  
-----  
| kode_buku | int(11) | NO | PRI | NULL | |  
| kode_eksemplar | int(11) | NO | | NULL | |  
| judul_buku | varchar(20) | NO | | NULL | |  
| tahun_buku | int(11) | NO | | NULL | |  
-----  
4 rows in set (0.269 sec)
```

```
MariaDB [perpustakaan]> CREATE TABLE penerbit(  
-> kode_penerbit INTEGER PRIMARY KEY,  
-> nama_penerbit VARCHAR(50) NOT NULL);  
Query OK, 0 rows affected (0.381 sec)
```

```
MariaDB [perpustakaan]> desc penerbit;
```

```
-----  
| Field | Type | Null | Key | Default | Extra |  
-----  
| kode_penerbit | int(11) | NO | PRI | NULL | |  
| nama_penerbit | varchar(50) | NO | | NULL | |  
-----  
2 rows in set (0.097 sec)
```

```
MariaDB [perpustakaan]> CREATE TABLE pengarang(  
-> kode_pengarang INTEGER PRIMARY KEY,  
-> nama_pengarang VARCHAR(50) NOT NULL,  
-> title_pengarang VARCHAR(20) NOT NULL);  
Query OK, 0 rows affected (0.388 sec)
```

```
MariaDB [perpustakaan]> desc pengarang;
```

```
-----  
| Field | Type | Null | Key | Default | Extra |  
-----  
| kode_pengarang | int(11) | NO | PRI | NULL | |  
| nama_pengarang | varchar(50) | NO | | NULL | |  
| title_pengarang | varchar(20) | NO | | NULL | |  
-----  
3 rows in set (0.053 sec)
```

e.

```
MariaDB [perpustakaan]> insert into mahasiswa (NIM, nama, kelas, gender) values
```

```
-> ('2001', 'Yanu', 'A', 'Pria'),
-> ('2002', 'Dani', 'A', 'Pria'),
-> ('2003', 'Ratu', 'A', 'Wanita'),
-> ('2004', 'Dinar', 'B', 'Wanita'),
-> ('2005', 'Vita', 'B', 'Wanita'),
-> ('2006', 'Reno', 'C', 'Pria'),
-> ('2007', 'Raffi', 'C', 'Pria'),
-> ('2008', 'Boy', 'C', 'Pria'),
-> ('2009', 'Reny', 'D', 'Wanita'),
-> ('2010', 'Mirza', 'D', 'Wanita');
```

```
Query OK, 10 rows affected (0.003 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
MariaDB [perpustakaan]> select * from mahasiswa;
```

NIM	nama	kelas	gender
2001	Yanu	A	Pria
2002	Dani	A	Pria
2003	Ratu	A	Wanita
2004	Dinar	B	Wanita
2005	Vita	B	Wanita
2006	Reno	C	Pria
2007	Raffi	C	Pria
2008	Boy	C	Pria
2009	Reny	D	Wanita
2010	Mirza	D	Wanita

```
10 rows in set (0.000 sec)
```

```
MariaDB [perpustakaan]> insert into buku (kode_buku, kode_eksemplar, judul_buku, tahun_buku) values
```

```
-> ('001.01/ws', '001.01/ws/001', 'Laskar Pelangi', '2005'),
-> ('002.02/ws', '002.02/ws/002', 'Dilan', '2016'),
-> ('003.03/ws', '003.03/ws/003', 'Hujan Di bulan Juni', '2012'),
-> ('004.04/ws', '004.04/ws/004', '5 Cm', '2012'),
-> ('005.05/ws', '005.05/ws/005', 'Ratu', '2016'),
-> ('006.06/ws', '006.06/ws/006', 'Koala Kumal', '2010'),
-> ('007.07/ws', '007.07/ws/007', 'Rindu', '2003'),
-> ('008.08/ws', '008.08/ws/008', 'Sangkuriang', '2000'),
-> ('009.09/ws', '009.09/ws/009', 'Sang Pemimpi', '2008'),
-> ('010.10/ws', '010.10/ws/010', 'Negeri 5 Menara', '2009');
```

```
Query OK, 10 rows affected, 20 warnings (0.124 sec)
Records: 10 Duplicates: 0 Warnings: 20
```

```
MariaDB [perpustakaan]> select * form buku
```

```
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'form buku' at line 1
```

```
MariaDB [perpustakaan]> select * form buku;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'form buku' at line 1
```

```
MariaDB [perpustakaan]> select * from buku;
```

```
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ':' at line 1
```

```
MariaDB [perpustakaan]> select * from buku;
```

kode_buku	kode_eksemplar	judul_buku	tahun_buku
1	1	Laskar Pelangi	2005
2	2	Dilan	2016
3	3	Hujan Di bulan Juni	2012
4	4	5 Cm	2012
5	5	Ratu	2016
6	6	Koala Kumal	2010
7	7	Rindu	2003
8	8	Sangkuriang	2000
9	9	Sang Pemimpi	2008
10	10	Negeri 5 Menara	2009

```
MariaDB [perpustakaan]> insert into penerbit (kode_penerbit, nama_penerbit) values
```

```
-> ('001', 'Bentang Pustaka'),
-> ('002', 'Republika'),
-> ('003', 'Males'),
-> ('004', 'PT. Grasindo'),
-> ('005', 'Homerian'),
-> ('006', 'CV. Pustaka'),
-> ('007', 'Pastel Books'),
-> ('008', 'PT. Gramedia'),
-> ('009', 'Indra Published'),
-> ('010', 'Gagas Media');
```

```
Query OK, 10 rows affected (0.000 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
MariaDB [perpustakaan]> select * from penerbit;
```

kode_penerbit	nama_penerbit
1	Bentang Pustaka
2	Republika
3	Males
4	PT. Grasindo
5	Homerian
6	CV. Pustaka
7	Pastel Books
8	PT. Gramedia
9	Indra Published
10	Gagas Media

```
10 rows in set (0.001 sec)
```

```

MariaDB [perpustakaan]> insert into pengarang (kode_pengarang, nama_pengarang, title_pengarang) values
-> ('1001', 'Andrea', 'S.Sos'),
-> ('1002', 'Pida', 'S.H'),
-> ('1003', 'Radit', 'S.Pd, M.Pd'),
-> ('1004', 'Rony', 'S.T'),
-> ('1005', 'Marsudi', 'S.Kom'),
-> ('1006', 'Dhony', 'S.farm'),
-> ('1007', 'Prastiti', 'S.Sos'),
-> ('1008', 'Yuliadi', 'S.kom'),
-> ('1009', 'Shirazy', 'S.Pd, M.Pd'),
-> ('1010', 'Darwis', 'S.H');
Query OK, 10 rows affected (0.176 sec)
Records: 10  Duplicates: 0  Warnings: 0

```

```

MariaDB [perpustakaan]> select * from pengarang;
+-----+-----+-----+
| kode_pengarang | nama_pengarang | title_pengarang |
+-----+-----+-----+
| 1001 | Andrea | S.Sos |
| 1002 | Pida | S.H |
| 1003 | Radit | S.Pd, M.Pd |
| 1004 | Rony | S.T |
| 1005 | Marsudi | S.Kom |
| 1006 | Dhony | S.farm |
| 1007 | Prastiti | S.Sos |
| 1008 | Yuliadi | S.kom |
| 1009 | Shirazy | S.Pd, M.Pd |
| 1010 | Darwis | S.H |
+-----+-----+-----+
10 rows in set (0.001 sec)

```