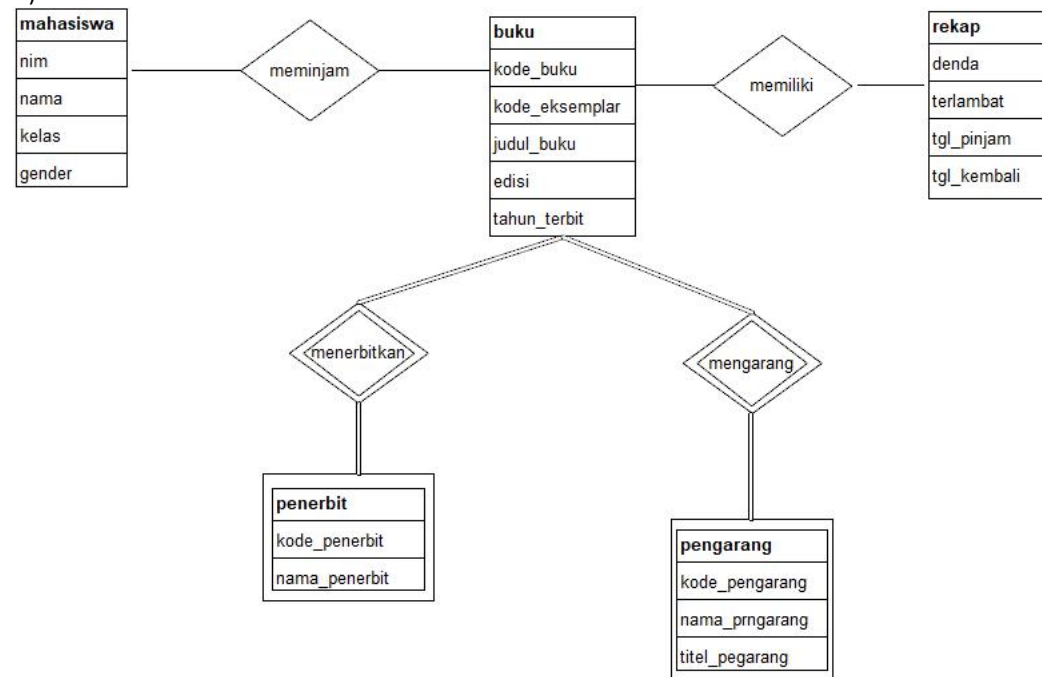


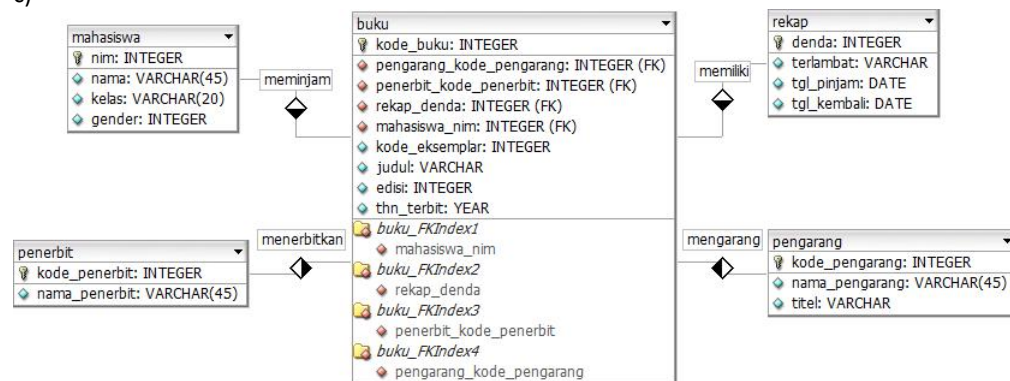
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A)



- B) - Mahasiswa meminjam buku (one-to-many)
 - Buku memiliki rekap (many-to-one)
 - Penerbit dengan buku (one-to-many)
 - Pengarang mengarang buku (one-to-many)

c)



d)

```

Command Prompt - mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 12
Server version: 10.4.11-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use perpustakaan;
Database changed
MariaDB [perpustakaan]> CREATE TABLE mahasiswa(
  -> Nim INTEGER PRIMARY KEY,
  -> Nama VARCHAR(45) NOT NULL,
  -> Kelas VARCHAR(20) NOT NULL,
  -> Gender INTEGER NOT NULL);
Query OK, 0 rows affected (0.353 sec)

MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER NOT NULL,
  -> Judul VARCHAR NOT NULL,
  -> Edisi INTEGER NOT NULL,
  -> Thn_terbit YEAR NOT NULL);
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 'NOT NULL, Edisi INTEGER NOT NULL, Thn_terbit YEAR NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER NOT NULL,
  -> Judul VARCHAR NOT NULL,
  -> Edisi INTEGER NOT NULL,
  -> Thn_terbit YEAR NOT NULL);
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 'NOT NULL, Edisi INTEGER NOT NULL, Thn_terbit YEAR NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER,
  -> Judul VARCHAR NOT NULL,
  -> Edisi INTEGER NOT NULL,
  -> Thn_terbit YEAR NOT NULL);
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 'NOT NULL, Edisi INTEGER NOT NULL, Thn_terbit YEAR NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER,
  -> Judul VARCHAR NOT NULL,
  -> Edisi INTEGER NOT NULL,
  -> Thn_terbit YEAR);
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 'NOT NULL, Edisi INTEGER NOT NULL, Thn_terbit VARCHAR(45) NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER,
  -> Judul VARCHAR NOT NULL,
  -> Edisi INTEGER,
  -> Thn_terbit VARCHAR(45) NOT NULL);
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 'NOT NULL, Edisi INTEGER, Thn_terbit VARCHAR(45) NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE buku(
  -> Kode_buku INTEGER PRIMARY KEY,
  -> Kode_ekslmpar INTEGER,
  -> Judul VARCHAR(255) NOT NULL,
  -> Edisi INTEGER,
  -> Thn_terbit VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.141 sec)

MariaDB [perpustakaan]> CREATE TABLE rekap(
  -> Denda INTEGER PRIMARY KEY,
  -> Terlambat VARCHAR(45) NOT NULL,
  -> Tgl_pinjam DATE NOT NULL,
  -> Tgl_kembali DATE NOT NULL);
Query OK, 0 rows affected (0.179 sec)

MariaDB [perpustakaan]> CREATE TABLE penerbit(
  -> Kode_penerbit INTEGER PRIMARY KEY,
  -> Nama_penerbit VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.189 sec)

MariaDB [perpustakaan]> CREATE TABLE penguang(
  -> Kode_penguang INTEGER PRIMARY KEY,
  -> Nama_penguang VARCHAR(45) NOT NULL,
  -> Title VARCHAR NOT NULL);
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 'NOT NULL)' at line 4
MariaDB [perpustakaan]> CREATE TABLE penguang(
  -> Kode_penguang INTEGER PRIMARY KEY,
  -> Nama_penguang VARCHAR(45) NOT NULL,
  -> Title VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.172 sec)

```

E)

```

MariaDB [perpustakaan]> INSERT INTO mahasiswa(nim,nama,kelas,gender) VALUES
  -> (101, 'Naura', 'H', 'P'),
  -> (102, 'Fika', 'H', 'P'),
  -> (103, 'Siska', 'A', 'P'),
  -> (104, 'Riski', 'C', 'P'),
  -> (105, 'Yoga', 'B', 'P'),
  -> (106, 'Vera', 'B', 'P'),
  -> (107, 'Pinut', 'D', 'P'),
  -> (108, 'Lala', 'D', 'P'),
  -> (109, 'Huhu', 'E', 'P'),
  -> (110, 'Hehe', 'F', 'P');
Query OK, 10 rows affected, 10 warnings (0.094 sec)
Records: 10 Duplicates: 0 Warnings: 10

```

```

ERROR 1062 (23000): Duplicate entry '117' for key 'PRIMARY'
MariaDB [perpustakaan]> INSERT INTO buku(kode_buku,kode_ekslempar,judul,edisi) VALUES
-> (111, 222, 'haha', 1),
-> (112, 223, 'hihi', 1),
-> (113, 223, 'hihi', 2),
-> (114, 224, 'nana', 2),
-> (115, 225, 'baba', 4),
-> (116, 226, 'hello', 4),
-> (117, 226, 'hello', 5),
-> (118, 227, 'yuhu', 1),
-> (119, 227, 'yuhu', 2),
-> (120, 228, 'wawa', 3);
Query OK, 10 rows affected, 1 warning (0.087 sec)
Records: 10 Duplicates: 0 Warnings: 1

MariaDB [perpustakaan]> INSERT INTO rekap(denda,terlambat,tgl_pinjam,tgl_kembali) VALUES
-> (2000, '2 hari', 2020-04-01, 2020-04-03 ),
-> (3000, '3 hari', 2020-04-02, 2020-04-05),
-> (1000, '1 hari', 2020-04-02, 2020-04-03),
-> (4000, '4 hari', 2020-04-05, 2020-04-09),
-> (5000, '5 hari', 2020-04-01, 2020-04-05),
-> (7000, '7 hari', 2020-04-03, 2020-04-10),
-> (2500, '2 hari', 2020-04-04, 2020-04-06),
-> (1500, '1 hari', 2020-04-08, 2020-04-09),
-> (4500, '4 hari', 2020-04-06, 2020-04-10),
-> (6000, '6 hari', 2020-04-01, 2020-04-06);
Query OK, 10 rows affected, 20 warnings (0.044 sec)
Records: 10 Duplicates: 0 Warnings: 20

MariaDB [perpustakaan]> INSERT INTO penerbit(kode_penerbit,nama_penerbit) VALUES
-> (311, 'SHEILA'),
-> (312, 'DELLA'),
-> (313, 'NAUNAU'),
-> (314, 'FERINA'),
-> (315, 'NOLA'),
-> (316, 'AGUS'),
-> (317, 'BAMBANG'),
-> (318, 'PINGKAN'),
-> (319, 'MUZA'),
-> (310, 'TERA');
Query OK, 10 rows affected (0.070 sec)
Records: 10 Duplicates: 0 Warnings: 0
ERROR 1062 (23000): Duplicate entry '2232' for key 'PRIMARY'
MariaDB [perpustakaan]> INSERT INTO pengarang(Kode_pengarang>Nama_pengarang>Title) VALUES
-> (2230, 'Dyah', 'Spd'),
-> (2231, 'Sika', 'S Farm'),
-> (2232, 'Michi', 'S Kom'),
-> (2233, 'Hani', 'S Psi'),
-> (2234, 'Riri', 'S Ked'),
-> (2235, 'Sisil', 'S Apt'),
-> (2236, 'Moca', 'S pd'),
-> (2237, 'Biru', 'S Ikom'),
-> (2238, 'Merry', 'SH'),
-> (2239, 'Maria', 'S T'),
-> (2240, 'Feli', 'S kom');
Query OK, 11 rows affected (0.074 sec)
Records: 11 Duplicates: 0 Warnings: 0

```