Mata Kuliah : Praktikum Sistem Basis Data

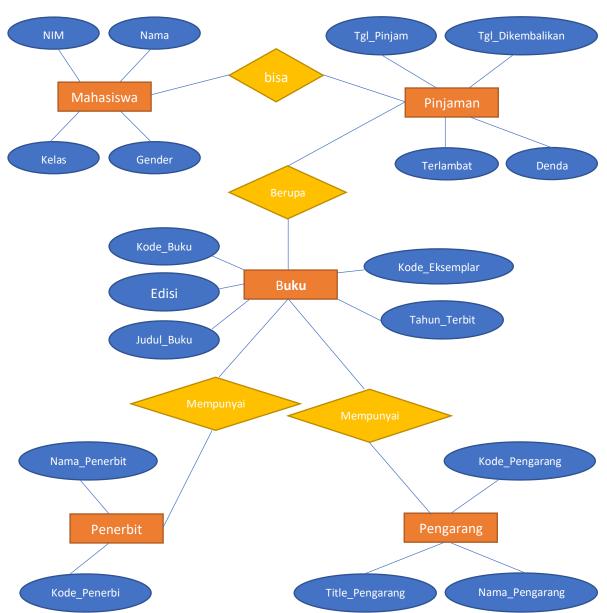
Nama : Alip Tabah Saputro

NIM : L200180215

Kelas : H

Pengampu : Heru Setya Nugraha

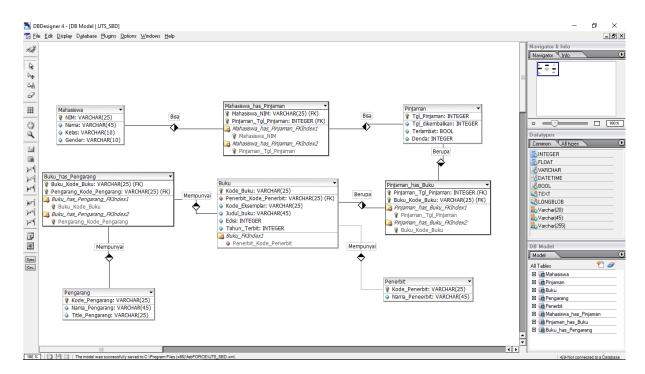
1. ERD



2. relasi

Entity	Relasi	Entity
Mahasiswa	M:n	Pinjaman
Pinjaman	M:n	Buku
Buku	M:n	Penerbit
Buku	M:n	Pengarang

3. Implementasi hasil ERD di DBDesigner



4. Implementasi di DATABASE menggunakan query SQL: CREATE

```
Nicrosoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.
  :\Users\ALIP-CORPORATION>cd..
 ::\>cd xampp\xampp\mysql\bin
C:\xampp\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the HariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 44
Server version: 10.4.11-MariaDB mariadb.org binary distribution
 information_schema
mysql
performance_schema
perpustakaan
phpmyadmin
test
 lariaDB [(none)]> use perpustakaan;
lariaDB [(none)]> use perpustakaan;
lariaDB [perpustakaan]> CREATE TABLE Mahasiswa(
-> NIM VARCHAR(25) NOT NULL,
-> Nama VARCHAR(45) NOT NULL,
-> Kelas VARCHAR(16) NOT NULL,
-> Gender VARCHAR(16) NOT NULL,
-> PRIMARY KEY (NIM)
-> );
MariaDB [perpustakaan]> SHOW TABLES;
 -> );
uery OK, 0 rows affected (1.413 sec)
   riaDB [perpustakaan]> SHOW TABLES;
   mahasiswa
   row in set (0.001 sec)
 ariaDB [perpustakaan]> CREATE TABLE Pinjaman(
-> Tgl_Pinjam INTEGER NOT NULL,
-> Tgl_Dikembalikan INTEGER NOT NULL,
-> Terlambat BOOL NOT NULL,
-> Denda INTEGER NOT NULL,
  -> );
RROR 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
 ariaOB [perpustakaan]> CREATE TABLE Pinjaman(
-> Tgl_Pinjam INTEGER NOT NULL,
-> Tgl_Olkembalikan INTEGER NOT NULL,
-> Terlambat BOOL NOT NULL,
-> Denda INTEGER NOT NULL,
-> PRIMARY KEY(Tgl_Pinjam)
     -> );
ery OK, 0 rows affected (0.709 sec)
  ariaDB [perpustakaan]> CREATE TABLE Buku(
-> Kode Buku INTEGER NOT NULL,
-> Kode Eskemplar INTEGER NOT NULL;
RROR 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 3
   ariaDB [perpustakaan]> CREATE TABLE BUKU(
-> Kode Buku VARCHAR(25) NOT NULL,
-> Kode Eksemplar VARCHAR(25) NOT NULL,
-> Judul Duku VARCHAR(45) NOT NULL,
-> Edisi INTEGER NOT NULL,
-> Tahun Terbit INTEGER NOT NULL,
-> PRIMARY KEY (Kode_Buku)
-> :)
  ariaDB [perpustakaan]> CREATE TABLE Pengarang(
-> Kode_Pengarang VARCHAR(25) NOT NULL,
-> Nama_Pengarang VARCHAR(45) NOT NULL,
```

```
ð
           -> Edisi INTEGER NOT NULL,
-> Tahun_Terbit INTEGER NOT NULL,
-> PRIMARY KEY (Kode_Buku)
   ariaDB [perpustakaan]> CREATE TABLE Pengarang(
-> Kode_Pengarang VARCHAR(25) NOT NULL,
-> Nama_Pengarang VARCHAR(45) NOT NULL,
-> Fitle_Pengarang VARCHAR(25) NOT NULL,
-> PRIMARY KEY(Kode_Pengarang)
   uery OK, 0 rows affected (0.470 sec)
   ariaDB [perpustakaan]> SHOW TABLES;
    Tables_in_perpustakaan
   mahasiswa
pengarang
pinjaman
    rows in set (0.002 sec)
    ariaDB [perpustakaan]) CREATE TABLE Buku(
-> Kode_Buku VARCHAR(25) NOT NULL,
-> Kode_Eksemplar VARCHAR(25) NOT NULL,
-> Joudi] Duku VARCHAR(45) NOT NULL,
-> Edisi INTEGER NOT NULL,
-> Tahun Terbit INTEGER NOT NULL,
-> PRIMARY KEY (Kode_Eksemplar)
   ariaDB [perpustakaan]> CREATE TABLE Penerbit(
-> Kode_Penerbit VARCHAR(25),
-> Kode_Penerbit VARCHAR(25),;
RROR 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 3
  lariaDB [perpustakaan]> CREATE TABLE Penerbit(
   -> Kode_Penerbit VARCHAR(25) NOT NULL,
   -> Nama_Penerbit VARCHAR(45) NOT NULL,
                                                                                                                                                                                                                                                                                                                                                          o x
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
   ariaDB [perpustakaan]> CREATE TABLE Buku(
-> Kode Buku VARCHAR(25) NOT NULL,
-> Kode Eksemplar VARCHAR(25) NOT NULL,
-> Judul_buku VARCHAR(45) NOT NULL,
-> Edisi INTEGER NOT NULL,
-> Tahun Terbit INTEGER NOT NULL,
-> PRIMARY KEY (Kode_Eksemplar)
-> 1
           > );
OK, 0 rows affected (0.586 sec)
   ariaDB [perpustakaan]> CREATE TABLE Penerbit(
-> Kode_Penerbit VARCHAR(25),
-> Kode_Penerbit VARCHAR(25),;
RROR 1864 (42800): 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 3
     riaDB [perpustakaan]> CREATE TABLE Penerbit(
-> Kode Penerbit VARCHAR(25) NOT NULL,
-> Nama_Penerbit VARCHAR(45) NOT NULL,
-> PRIMARY KEY (Kode_Penerbit)
   ariaDB [perpustakaan]> SHOW TABLES;
    Tables_in_perpustakaan |
   buku
mahasiswa
penerbit
    rows in set (0.002 sec)
```

5. INSERT data ke Database Perpustakaan

```
o
        ariaDB [perpustakaan]> INSERT INTO Makasiswa VALUES
       RROR 1664 (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
                     | Bod (42000): You have an error in your SQL syntax, check the manual that corresponds to your mailable server version to the light syntax to see manual that corresponds to your mailable server version to the light syntax to see manual that corresponds to your mailable server version to the light syntax to see manual that corresponds to your mailable server version to the light syntax to use near ' at line 1 (1200180218', 'A) unit of the light syntax to use near '' at line 1 (1200180218', 'A) unit of the right syntax to use near '' at line 1 (1200180218', 'A) unit of the right syntax to use near '' at line 1 (1200180222', 'Tabah', 'F', 'Laki-laki'),

> (''L200180221', 'Alip' tabah', 'F', 'Laki-laki'),
      RROR: No query specified
                      DB [perpustakaan]> INSERT INTO Mahasiswa VALUES
> ('1200180215', 'Alip Tabah Saputro', 'H', 'Laki-laki'),
> ('1200180216', 'Tabah Saputro', 'H', 'Laki-laki'),
> ('1200180216', 'Tabah Saputro', 'H', 'Laki-laki'),
> ('1200180218', 'Qurrota A'yuniah', 'G', 'Perempuan'),
> ('1200180219', 'A'yuniah', 'G', 'Perempuan'),
> ('1200180220', 'Qurrota', 'G', 'Perempuan'),
> ('1200180220', 'Qurrota', 'G', 'Perempuan'),
C\WINDOWS\system2\cmd.exe - mysql -u root -p
-> ('L200180216', 'Tabah Saputro', 'H', 'Laki-laki'),
-> ('L200180217', 'Saputro', 'H', 'Laki-laki'),
-> ('L200180218', 'G', 'Unrota A', 'yuniah', 'G', 'Perempuan'),
-> ('L200180219', 'A', 'yuniah', 'G', 'Perempuan'),
-> ('L200180219', 'A', 'yuniah', 'G', 'Perempuan'),
-> ('L200180219', 'A', 'yuniah', 'G', 'Perempuan'),
-> ('L200180221', 'Alip', 'F', 'Laki-laki'),
-> ('L200180221', 'Tabah', 'F', 'Laki-laki'),
-> ('L200180221', 'saputro alip', 'F', 'Laki-laki'),
-> ('L200180224', 'tabah alip', 'F', 'Laki-laki'),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - 0 X
         riaDB [perpustakaan]> INSERT INTO Mahasiswa VALUES
-> ('L200180215','Alip Tabah Saputro','H','taki-laki'),
-> ('L200180216','Tabah Saputro','H','taki-laki'),
-> ('L200180217','Saputro','H','taki-laki'),
                        >
> ('L200180215','Alip Tabah Saputro','H','Laki-laki'),kjn;;
1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaD8 server version for the right syntax to use near 'kjn' at lir
      ARROR: No query specified

aniaDB [perpustakaan]> INSERT INTO Mahasiswa VALUES

-> ('1200180215', 'Alip Tabah Saputro', 'H', 'laki-laki'),

-> ('1200180216', 'Tabah Saputro', 'H', 'taki-laki'),

-> ('1200180218', 'Saputro', 'H', 'taki-laki'),

-> ('1200180218', 'Qurrota A', 'yuniah', 'G', 'Perempuan'),

-> ('1200180221', 'Alip', 'F', 'taki-laki'),

-> ('1200180221', 'Alip', 'F', 'taki-laki'),

-> ('1200180222', 'gaungka', 'i', 'laki-laki'),

-> ('1200180223', 'agungka', 'i', 'laki-laki'),

-> ('1200180223', 'alip aja', 'i', 'laki-laki');

uery OK, 10 rows affected (0.214 sec)

econds: 10 Duplicates: 0 Warnings: 0
```

```
ST C:\WINDOWS\system32\cmd.exe-mysql-uroot-p
-> ('SOC08', 'PERCETAKAN MAKMUR'),
-> ('SOC09', 'PERCETAKAN SETIA'),
-> ('SOC19', 'PERCETAKAN AMANAH');
Query ΟΚ, 10 rows affected (0.142 sec)
Records: 10 Duplicates: 0 Warnings: 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
            ', ();;;asmndas'
-> end
-> SHON DATABASES;
RROR 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 'yun','S.Psi
        ();;;asmndas'
          end

sHOM' at line 10

MariaDB [perpustakaan]> INSERT INTO Pengarang VALUES

-> ('ADI', 'Wiwit Supriyanti', 'S.Kom, M,Kom'),

-> ('AD2', 'Heru Setya Nugraha', 'S.T, M.Kom'),

-> ('AO3', 'Yudi Wahyu Wibowo', 'S.T., M.Eng'),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - 0 X
CAWINDOWS.system32Acmd.exe - mysql -u root -p
end
MariaDB [perpustakaan]> INSERT INTO Pengarang VALUES
-> (Aal ', 'Miwit Supriyanti', 'S. Kom, M, Kom'),
-> ('Aa2', 'Heru Setya Nugraha', 'S.T, M.Kom'),
-> ('Aa3', 'Yudi Mahyu Mibowo', 'S.T. M.Kom'),
-> ('Aa4', 'Ailp Tabah Saputro', 'S. Kom, M.Kom'),
-> ('Aa6', 'Saputro', 'S. Kom, M.Kom'),
-> ('Aa6', 'Ailp', 'S. Kom, M. Kom'),
-> ('Aa6', 'Ailp', 'S. Kom, M. Kom'),
-> ('Aa8', 'Tabah 'S. Kom, M. Kom'),
-> ('Aa9', 'Qurrota Ayun', 'S. Psi'),
-> ('Aid), 'Qurrota (Y. S. Y. S.
      C:\WINDOWS\system32\cmd.exe - mysql -u root -p
                ariaDB [perpustakaan]> INSERT INTO Pinjaman VALUES
-> (01012020,10012020,FALSE,0);
uery OK, 1 row affected (0.122 sec)
              acijoB.; Prosi artected (ur.1 sec)
ariaDB [perpustakaan]> INSERT INTO Pinjaman VALUES
-> (02012020,10012020; FALSE,0),
-> (03012020,10012020; FALSE,0),
-> (04012020,10012020; FALSE,0),
-> (05012020,10012020; FALSE,0),
-> (05012020,10012020; FRUE,10000),
-> (09012020,10012020; FRUE,10000),
-> (09012020; 10012020; FRUE,10000),
-> (09012020; 10012020
                  ariaDB [perpustakaan]> DESC Buku;
                rows in set (0.178 sec)
      MariaDB [perpustakaan]> DESC Mahasiswa;
```

```
o C:\WINDOWS\system32\cmd.exe-mysql -uroot-p
MariaDB [perpustakaan]> DESC Mahasiswa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             o
                              varchar(25) | NO
varchar(45) | NO
varchar(10) | NO
varchar(10) | NO
                                                                                       PRI NULL
NULL
NULL
NULL
     rows in set (0.093 sec)
     ariaOB [perpustakaan]> SELECT * FROM Buku;
Kode_Buku | Kode_Eksemplar | Judul_buku | Edisi | Tahun_Terbit |
   001.01/ws 001.01/ws/0001
001.01/ws 001.01/ws/0002
001.01/ws 001.01/ws/0002
001.01/ws 001.01/ws/0003
001.01/ws 001.01/ws/0004
001.01/ws 001.01/ws/0005
001.01/ws 001.01/ws/0006
001.01/ws 001.01/ws/0006
001.01/ws 001.01/ws/0000
001.01/ws 001.01/ws/0000
001.01/ws 001.01/ws/0000
001.01/ws 001.01/ws/0000
                                                                                        AWALMULA
   0 rows in set (0.001 sec)
                                     Alip Tabah Saputro
Tabah Saputro
Saputro
Qurrota A'yuniah
A'yuniah
Qurrota
Alip
Tabah
agungka
Alip aja
                                                                                                                                 Laki-laki
Laki-laki
Laki-laki
Perempuan
Perempuan
Laki-laki
Laki-laki
Laki-laki
   0 rows in set (0.002 sec)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - 0 X
C:\WINDOWS\system32\cmd.exe - mysql -u root -p
 | L200180223 | agungka
| L200180224 | Alip aja
   ariaDB [perpustakaan]> SELECT * FROM Penerbit;
                                                AIRLANGGA
GRAMEDIA
KOPERJAS
UNS
UNIS
UNISRI
ISI
PERCETAKAN MAKMUR
PERCETAKAN SETIA
     SOC01
SOC02
SOC03
SOC04
SOC05
SOC06
SOC07
SOC08
SOC09
SOC10
                                                                                                                |
| Title_Pengarang |
                                                     Wiwit Suprayanti
Heru Setya Nugraha
Yudi Wahyu Wibowo
Alip Tabah Saputro
Tabah Saputro
Saputro
Alip
Tabah
Qurrota Ayun
Qurrota
     A01
A02
A03
A04
A05
A06
A07
A08
A09
                                                                   10012020
10012020
10012020
```

