

UTS ONLINE

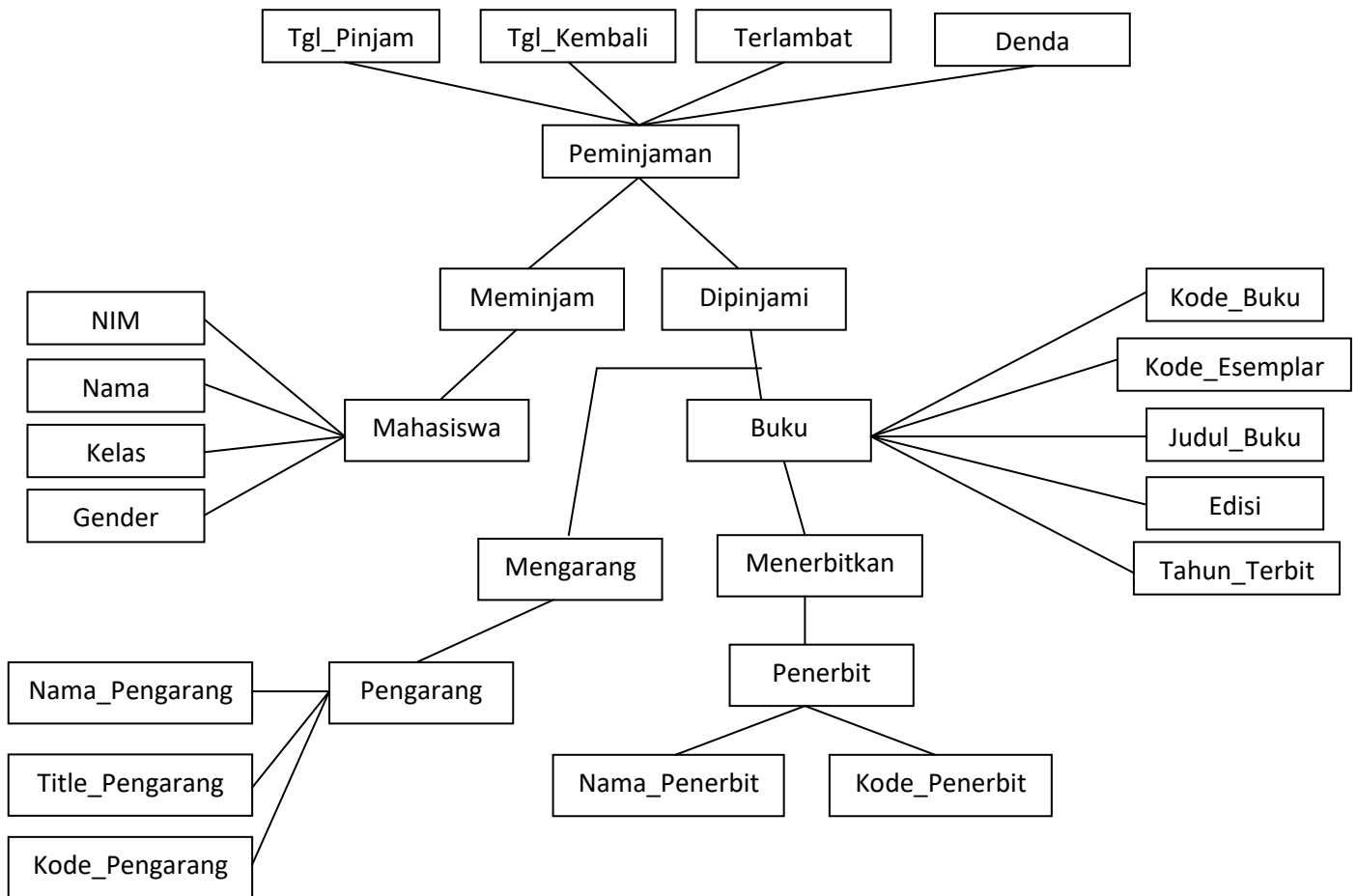
SISTEM BASIS DATA

NAMA : MUHAMMAD MASYKUR

KELAS : A

NIM : L200150018

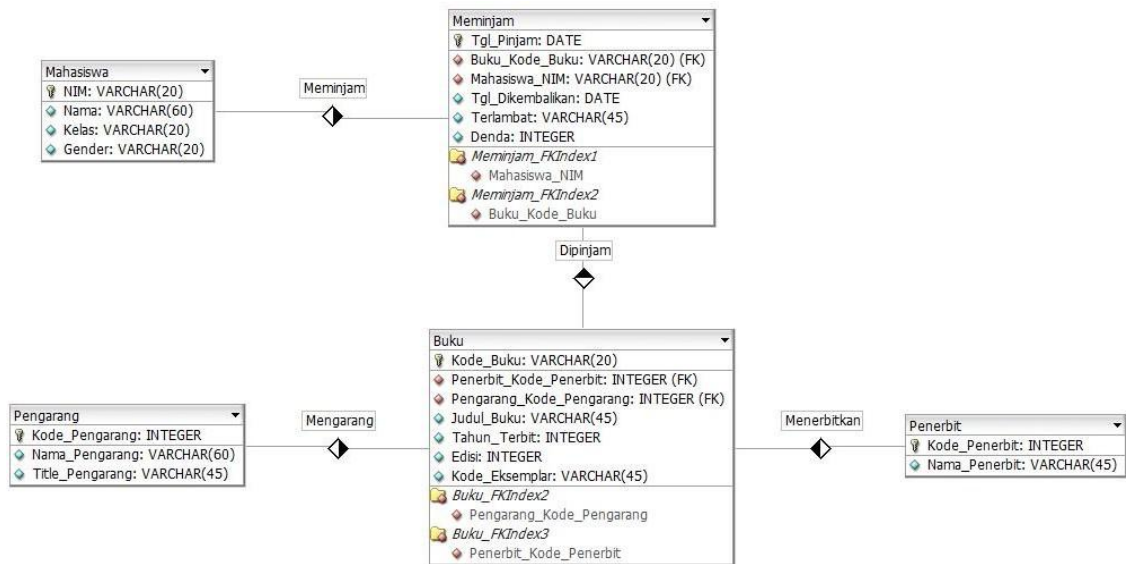
A.



B.

	Mahasiswa	Buku	Peminjaman	Pengarang	Penerbit
Mahasiswa	-		M:n		
Buku		-	1:1		
Peminjaman			-		
Pengarang		1:1		-	
Penerbit		1:1			-

C.



D.

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MariaDB [(none)]> USE perpustakaan;
Database changed
MariaDB [perpustakaan]> CREATE TABLE Mahasiswa(
-> NIM VARCHAR(20) NOT NULL PRIMARY KEY,
-> Nama VARCHAR(60) NOT NULL,
-> Kelas VARCHAR(20) NOT NULL,
-> Gender VARCHAR(20) NOT NULL);
Query OK, 0 rows affected (0.046 sec)

MariaDB [perpustakaan]> DESC Mahasiswa;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIM   | varchar(20) | NO | PRI | NULL | |
| Nama  | varchar(60) | NO | | NULL | |
| Kelas | varchar(20) | NO | | NULL | |
| Gender | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.017 sec)

MariaDB [perpustakaan]>
  
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MariaDB [perpustakaan]> CREATE TABLE Penerbit(
-> Kode_Penerbit INT NOT NULL PRIMARY KEY,
-> Nama_Penerbit VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.012 sec)

MariaDB [perpustakaan]> DESC Penerbit;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kode_Penerbit | int(11) | NO | PRI | NULL | |
| Nama_Penerbit | varchar(45) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.004 sec)

MariaDB [perpustakaan]>
  
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MariaDB [perpustakaan]> CREATE TABLE Pengarang(
-> Kode_Pengarang INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> Nama_Pengarang VARCHAR(60) NOT NULL,
-> Title_Pengarang VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.013 sec)

MariaDB [perpustakaan]> DESC Pengarang;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kode_Pengarang | int(11) | NO | PRI | NULL | auto_increment |
| Nama_Pengarang | varchar(60) | NO | | NULL | |
| Title_Pengarang | varchar(45) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.005 sec)

MariaDB [perpustakaan]>
  
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MariaDB [perpustakaan]> CREATE TABLE Meminjam(
-> Tgl_Pinjam DATE NOT NULL,
-> Buku_Kode_Buku VARCHAR(20) NOT NULL,
-> Mahasiswa_NIM VARCHAR(20) NOT NULL,
-> Tgl_Dikembalikan DATE NOT NULL,
-> Terlambat VARCHAR(45) NOT NULL,
-> Denda INT NOT NULL,
-> PRIMARY KEY(Buku_Kode_Buku, Mahasiswa_NIM),
-> FOREIGN KEY(Buku_Kode_Buku) REFERENCES Buku(Kode_Buku) ON DELETE CASCADE ON UPDATE CASCADE,
-> FOREIGN KEY(Mahasiswa_NIM) REFERENCES Mahasiswa(NIM) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.015 sec)

MariaDB [perpustakaan]> DECS Meminjam;
ERROR 1064 (42000): You have an error in your SQL syntax, check the manual that corresponds to your
on for the right syntax to use near 'DECS Meminjam' at line 1
MariaDB [perpustakaan]> DESC Meminjam;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Tgl_Pinjam | date | NO | | NULL | |
| Buku_Kode_Buku | varchar(20) | NO | PRI | NULL | |
| Mahasiswa_NIM | varchar(20) | NO | PRI | NULL | |
| Tgl_Dikembalikan | date | NO | | NULL | |
| Terlambat | varchar(45) | NO | | NULL | |
| Denda | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.005 sec)

MariaDB [perpustakaan]> _

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MariaDB [perpustakaan]> CREATE TABLE Buku(
-> Kode_Buku VARCHAR(20) NOT NULL PRIMARY KEY,
-> Penerbit_Kode_Penerbit INT NOT NULL,
-> Pengarang_Kode_Pengarang INT NOT NULL,
-> Judul_Buku VARCHAR(45) NOT NULL,
-> Tahun_Terbit INT NOT NULL,
-> Edisi INT NOT NULL,
-> Kode_Eksemplar VARCHAR(45) NOT NULL,
-> FOREIGN KEY(Penerbit_Kode_Penerbit) REFERENCES Penerbit(Kode_Penerbit) ON DELETE CASCADE ON UPDATE CASCADE,
-> FOREIGN KEY(Pengarang_Kode_Pengarang) REFERENCES Pengarang(Kode_Pengarang) ON DELETE CASCADE ON UPDATE CASCADE);
Query OK, 0 rows affected (0.038 sec)

MariaDB [perpustakaan]> DESC Buku;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Kode_Buku | varchar(20) | NO | PRI | NULL | |
| Penerbit_Kode_Penerbit | int(11) | NO | MUL | NULL | |
| Pengarang_Kode_Pengarang | int(11) | NO | MUL | NULL | |
| Judul_Buku | varchar(45) | NO | | NULL | |
| Tahun_Terbit | int(11) | NO | | NULL | |
| Edisi | int(11) | NO | | NULL | |
| Kode_Eksemplar | varchar(45) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.016 sec)

MariaDB [perpustakaan]>

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E.

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MariaDB [perpustakaan]> INSERT INTO Mahasiswa VALUES
-> ('L200180001', 'Andhika', 'A', 'Laki-Laki'),
-> ('L200180002', 'Nayla', 'B', 'Perempuan'),
-> ('L200180003', 'Aisyah', 'C', 'Perempuan'),
-> ('L200180004', 'Siska', 'B', 'Perempuan'),
-> ('L200180005', 'Reno', 'C', 'Laki-Laki'),
-> ('L200180006', 'Jefri', 'B', 'Laki-Laki'),
-> ('L200180007', 'Amanda', 'A', 'Perempuan'),
-> ('L200180008', 'Budi', 'A', 'Laki-Laki'),
-> ('L200180009', 'Ihsan', 'C', 'Laki-Laki'),
-> ('L200180010', 'Linda', 'C', 'Perempuan');
Query OK, 10 rows affected (0.37 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perpustakaan]> SELECT * FROM Mahasiswa;
+-----+-----+-----+-----+
| NIM | Nama | Kelas | Gender |
+-----+-----+-----+-----+
| L200180001 | Andhika | A | Laki-Laki |
| L200180002 | Nayla | B | Perempuan |
| L200180003 | Aisyah | C | Perempuan |
| L200180004 | Siska | B | Perempuan |
| L200180005 | Reno | C | Laki-Laki |
| L200180006 | Jefri | B | Laki-Laki |
| L200180007 | Amanda | A | Perempuan |
| L200180008 | Budi | A | Laki-Laki |
| L200180009 | Ihsan | C | Laki-Laki |
| L200180010 | Linda | C | Perempuan |
+-----+-----+-----+-----+
10 rows in set (0.11 sec)

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MariaDB [perpustakaan]> INSERT INTO Penerbit VALUES
-> (101, 'Gagas Media'),
-> (102, 'Tiga Serangkai'),
-> (103, 'Expose'),
-> (104, 'Bentang Pustaka'),
-> (105, 'Gramedia'),
-> (106, 'Agro Media'),
-> (107, 'Penulis Cilik'),
-> (108, 'Noura Books'),
-> (109, 'Mizan'),
-> (110, 'Andi Publisher');
Query OK, 10 rows affected (0.08 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perpustakaan]> SELECT * FROM Penerbit;
+-----+-----+
| Kode_Penerbit | Nama_Penerbit |
+-----+-----+
| 101 | Gagas Media |
| 102 | Tiga Serangkai |
| 103 | Expose |
| 104 | Bentang Pustaka |
| 105 | Gramedia |
| 106 | Agro Media |
| 107 | Penulis Cilik |
| 108 | Noura Books |
| 109 | Mizan |
| 110 | Andi Publisher |
+-----+-----+
10 rows in set (0.00 sec)

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MariaDB [perpustakaan]> INSERT INTO Pengarang VALUES
-> (1011, 'Joko', 'S.Pd.'),
-> (1012, 'Warno', ''),
-> (1013, 'Prapto', 'S.Kom.'),
-> (1014, 'Sudi', 'Dr.'),
-> (1015, 'Tono', ''),
-> (1016, 'Ranto', 'M.Pd.'),
-> (1017, 'Siti', ''),
-> (1018, 'Heru', 'M.Si.'),
-> (1019, 'Rasidi', 'M.Kom.'),
-> (1020, 'Riani', 'dr. ');
Query OK, 10 rows affected (0.13 sec)
Records: 10 Duplicates: 0 Warnings: 0

MariaDB [perpustakaan]> SELECT * FROM Pengarang;
+-----+-----+-----+
| Kode_Pengarang | Nama_Pengarang | Title_Pengarang |
+-----+-----+-----+
| 1011 | Joko | S.Pd. |
| 1012 | Warno |  |
| 1013 | Prapto | S.Kom. |
| 1014 | Sudi | Dr. |
| 1015 | Tono |  |
| 1016 | Ranto | M.Pd. |
| 1017 | Siti |  |
| 1018 | Heru | M.Si. |
| 1019 | Rasidi | M.Kom. |
| 1020 | Riani | dr. |
+-----+-----+-----+
10 rows in set (0.00 sec)

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