Nama : Levi Rizki Saputra

NIM : 123230127

Kelas : D

Create Database:

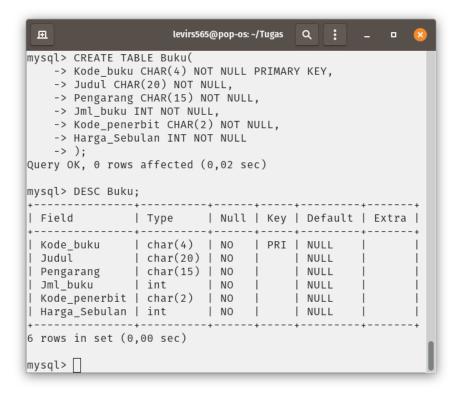


Query:

```
CREATE TABLE Buku(
Kode_buku CHAR(4) NOT NULL PRIMARY KEY,
Judul CHAR(20) NOT NULL,
Pengarang CHAR(15) NOT NULL,
Jml_buku INT NOT NULL,
Kode_penerbit CHAR(2) NOT NULL,
Harga_Sebulan INT NOT NULL
);
Hasil:
Query OK, O rows affected (0,02 sec)
Query:
DESC Buku;
Hasil:
```

```
| Field | Type | Null | Key | Default | Extra |
 Judul
       | char(20) | NO | NULL
 Pengarang
      | char(15) | NO |
                NULL
 Jml_buku
      int NO
                NULL
 | Kode_penerbit | char(2) | NO
              NULL
 NULL
 10
```

6 rows in set (0,00 sec)



Query:

- CREATE TABLE Penerbit(
- Kode_penerbit CHAR(2) NOT NULL PRIMARY KEY,
- Nm_penerbit CHAR(15) NOT NULL
-);

Hasil:

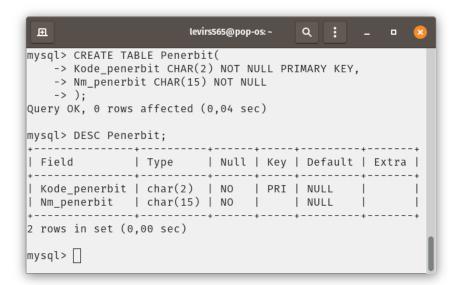
Query OK, 0 rows affected (0,04 sec)

Query:

DESC Penerbit;

Hasil:

2	+	Туре	Null	Key	Default	Extra
	+ Kode_penerbit	•	•			++



```
CREATE TABLE Pinjam(
ID_Peminjaman INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
Tgl_Pinjam DATETIME NOT NULL,
Mhs_no_induk CHAR(9) NOT NULL,
Buku_kode_buku CHAR(4) NOT NULL,
Tlg_hrs_kembali DATETIME NOT NULL,
Tgl_kembali DATETIME
);
   Hasil:
 Query OK, 0 rows affected (0,03 sec)
   Query:
 ALTER TABLE Pinjam RENAME COLUMN Tlg_hrs_kembali TO Tgl_hrs_kembali;
   Hasil:
 Query OK, 0 rows affected (0,04 sec)
 Records: O Duplicates: O Warnings: O
   Query:
DESC Pinjam;
   Hasil:
             | Type | Null | Key | Default | Extra
 +----+
Tgl_Pinjam | datetime | NO | NULL |
```

```
Ð
                              levirs565@pop-os: ~
mysql> CREATE TABLE Pinjam(
    -> ID_Peminjaman INT NOT NULL PRIMARY KEY AUTO_INCREMEN
    -> Tgl_Pinjam DATETIME NOT NULL,
    -> Mhs_no_induk CHAR(9) NOT NULL,
    -> Buku_kode_buku CHAR(4) NOT NULL,
    -> Tlg_hrs_kembali DATETIME NOT NULL,
    -> Tgl_kembali DATETIME
    -> );
Query OK, 0 rows affected (0,03 sec)
mysql> ALTER TABLE Pinjam RENAME COLUMN Tlg_hrs_kembali TO Tgl_hrs_kemba
Query OK, 0 rows affected (0,04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> DESC Pinjam;
          | Type | Null | Key | Default | Extra
l Field
| ID_Peminjaman | int | NO | PRI | NULL | auto_increment |
| Tgl_Pinjam | datetime | NO | | NULL
| Mhs_no_induk | char(9) | NO | | NULL
| Buku_kode_buku | char(4) | NO | | NULL
| Tgl_hrs_kembali | datetime | NO
                                        NULL
| Tgl_kembali | datetime | YES | | NULL
6 rows in set (0,00 sec)
mysql>
```

```
INSERT INTO Penerbit(Kode_penerbit, Nm_penerbit) VALUES
("01", "Informatika"),
("02", "Andi"),
("03", "Gava Media"),
("04", "Erlanggan"),
("05", "ITB"),
("06", "Mizan");

Hasil:
Query 0K, 6 rows affected (0,01 sec)
Records: 6 Duplicates: 0 Warnings: 0

Query:
UPDATE Penerbit SET Nm_penerbit = "Erlangga" WHERE Kode_penerbit = "04";
Hasil:
Query 0K, 1 row affected (0,00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

SELECT * FROM Penerbit;

Hasil:

```
+----+
  | Kode_penerbit | Nm_penerbit |
  +----+
          Informatika
 01
          Andi
 02
          Gava Media
 03
          Erlangga
 04
 05
          | ITB
 06
         Mizan
9
 +----+
11 6 rows in set (0,00 sec)
```

```
levirs565@pop-os: ~
 Ð.
mysql> INSERT INTO Penerbit(Kode_penerbit, Nm_penerbit) VALUES
    -> ("01", "Informatika"),
   -> ("02", "Andi"),
-> ("03", "Gava Media"),
-> ("04", "Erlanggan"),
-> ("05", "ITB"),
-> ("06", "Mizan");
Query OK, 6 rows affected (0,01 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> UPDATE Penerbit SET Nm_penerbit = "Erlangga" WHERE Kode
_penerbit = "04";
Query OK, 1 row affected (0,00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM Penerbit;
| Kode_penerbit | Nm_penerbit |
+----+
              | Informatika |
| Andi |
01
02
03
                | Gava Media
04
                | Erlangga
05
                | ITB
06
                | Mizan
6 rows in set (0,00 sec)
mysql>
```

Query:

```
INSERT INTO Buku(Kode_buku, Judul, Pengarang, Jml_buku, Kode_penerbit, Harga_Sebulan) VALUES
("0001", "Kalkulus E. 9 J. 1", "Purcell", 3, "04", 35000),
("0002", "Matematika Diskrit", "Rinaldi Munir", 7, "02", 12500),
("0003", "Teori Aplikasi C++", "R.H. Sianipar", 2, "01", 17500),
("0004", "Delphi Accounting", "G.H. Away", 6, "01", 16000),
("0005", "Delphi Firebird", "G.H. Away", 3, "01", 15000),
```

```
("0006", "Perpustakaan PHP", "B. Nugroho", 5, "03", 11000),
("0007", "Konsep Teknologi", "Purwasasmita", 10, "05", 4500),
("0008", "Meditation", "M. Aurelius", 20, "06", 9000);

    Hasil:
Query OK, 8 rows affected (0,01 sec)
Records: 8 Duplicates: 0 Warnings: 0

    Query:
SELECT * FROM Buku;
```

Hasil:

1		Kode_buku	Judul	Pengarang	Jml_buku	Kode_penerbit	Harga_Sebulan
2	+		++		+		++
3		0001	Kalkulus E. 9 J. 1	Purcell	3	04	35000
4		0002	Matematika Diskrit	Rinaldi Munir	7	02	12500
5		0003	Teori Aplikasi C++	R.H. Sianipar	2	01	17500
6		0004	Delphi Accounting	G.H. Away	6	01	16000
7		0005	Delphi Firebird	G.H. Away	3	01	15000
8		0006	Perpustakaan PHP	B. Nugroho	5	03	11000
9		0007	Konsep Teknologi	Purwasasmita	10	05	4500
10		8000	Meditation	M. Aurelius	20	06	9000
11	+		++		+		++

 $_{12}$ 8 rows in set (0,00 sec)

mysql> INSERT INTO Buku(Kode_buku, Judul, Pengarang, Jml_buku, Kode_penerbit, Harga_Sebulan) V ALUES -> ("0001", "Kalkulus E. 9 J. 1", "Purcell", 3, "04", 35000), -> ("0002", "Matematika Diskrit", "Rinaldi Munir", 7, "02", 12500), -> ("0003", "Teori Aplikasi C++", "R.H. Sianipar", 2, "01", 17500), -> ("0004", "Delphi Accounting", "G.H. Away", 6, "01", 16000), -> ("0005", "Delphi Firebird", "G.H. Away", 3, "01", 15000), -> ("0006", "Perpustakaan PHP", "B. Nugroho", 5, "03", 11000), -> ("0007", "Konsep Teknologi", "Purwasasmita", 10, "05", 4500), -> ("0008", "Meditation", "M. Aurelius", 20, "06", 9000); Query OK, 8 rows affected (0,01 sec) Records: 8 Duplicates: 0 Warnings: 0							
+	, ,						
0001	Rinaldi Munir R.H. Sianipar G.H. Away G.H. Away B. Nugroho Purwasasmita	7 2 6 3		35000 12500 17500 16000 15000 11000 4500			
# rows in set (0,00 sec) mysql>							

```
INSERT INTO Pinjam(Tgl_Pinjam, Mhs_no_induk, Buku_kode_buku, Tgl_hrs_kembali, Tgl_kembali)
   ("2023-06-03", "123230158", "0008", "2023-07-03", "2023-07-01"),
   ("2023-06-17", "123230121", "0004", "2023-07-17", "2023-07-15"),
   ("2023-06-24", "123230127", "0001", "2023-07-24", "2023-07-23"),
   ("2023-07-14", "123230214", "0006", "2023-08-13", "2023-08-10"),
   ("2023-07-23", "123230134", "0002", "2023-08-22", "2023-08-20"),
    ("2023-07-24",\ "123230128",\ "0007",\ "2023-08-23",\ "2023-08-21")\,, \\
   ("2023-08-01", "123230001", "0005", "2023-08-31", "2023-08-30"),
   ("2023-08-10", "123230067", "0003", "2023-09-09", "2023-09-08"),
   ("2023-09-01", "123230147", "0007", "2023-10-01", "2023-09-24");
1.0
      Hasil:
   Query OK, 9 rows affected (0,00 sec)
   Records: 9 Duplicates: 0 Warnings: 0
      Query:
   SELECT * FROM Pinjam;
```

Hasil:

```
| ID_Peminjaman | Tgl_Pinjam | Mhs_no_induk | Buku_kode_buku | Tgl_hrs_kembali | Tgl_kembali
    0008
4
                 1 | 2023-06-03 00:00:00 | 123230158
                                                                     2023-07-03 00:00:00 | 2023-07-01 00:00:00 |
                 2 | 2023-06-17 00:00:00 | 123230121 | 0004
                                                                     | 2023-07-17 00:00:00 | 2023-07-15 00:00:00 |
                 3 | 2023-06-24 00:00:00 | 123230127 | 0001
                                                                    2023-07-24 00:00:00 | 2023-07-23 00:00:00 |
                                                                    | 2023-08-13 00:00:00 | 2023-08-10 00:00:00 |
                 4 | 2023-07-14 00:00:00 | 123230214 | 0006
                                                                    2023-08-22 00:00:00 | 2023-08-20 00:00:00 |

    5 | 2023-07-23 00:00:00 | 123230134 | 0002

    6 | 2023-07-24 00:00:00 | 123230128 | 0007

    7 | 2023-08-01 00:00:00 | 123230001 | 0005

                                                                     | 2023-08-23 00:00:00 | 2023-08-21 00:00:00
                                                                     2023-08-31 00:00:00 | 2023-08-30 00:00:00 |
10
                8 | 2023-08-10 00:00:00 | 123230067 | 0003
                                                                    2023-09-09 00:00:00 | 2023-09-08 00:00:00 |
11
                 9 | 2023-09-01 00:00:00 | 123230147 | 0007
                                                                     | 2023-10-01 00:00:00 | 2023-09-24 00:00:00 |
13
```

14 9 rows in set (0,00 sec)

```
Q 🗓 🗕 🛚 🛭
  Ð
                                                                           levirs565@pop-os: ~/Tugas
mysql> INSERT INTO Pinjam(Tgl_Pinjam, Mhs_no_induk, Buku_kode_buku, Tgl_hrs_kembali, Tgl_kembali) VALUES
     ql> INSERT INTO Pinjam(Tgl_Pinjam, Mhs_no_induk, Buku_kode_buku, Tgl_
-> ("2023-06-03", "123230158", "0008", "2023-07-03", "2023-07-01"),
-> ("2023-06-17", "123230121", "0004", "2023-07-17", "2023-07-15"),
-> ("2023-06-24", "123230127", "0001", "2023-07-24", "2023-07-23"),
-> ("2023-07-14", "123230214", "0006", "2023-08-13", "2023-08-10"),
-> ("2023-07-23", "123230134", "0002", "2023-08-22", "2023-08-20"),
-> ("2023-07-24", "123230128", "0007", "2023-08-23", "2023-08-21"),
-> ("2023-08-01", "123230061", "0005", "2023-08-31", "2023-08-30"),
-> ("2023-09-01", "123230147", "0005", "2023-09-09", "2023-09-08"),
-> ("2023-09-01", "123230147", "0007", "2023-10-01", "2023-09-24");

TY OK 9 prows affected (0.00 sec)
Query OK, 9 rows affected (0,00 sec)
Records: 9 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM Pinjam;
                                                       | Mhs_no_induk | Buku_kode_buku | Tgl_hrs_kembali | Tgl_kembali
 | ID_Peminjaman | Tgl_Pinjam
                    1 | 2023-06-03 00:00:00 | 123230158 | 0008
                                                                                                    | 2023-07-03 00:00:00 | 2023-07-01 00:00:00 |
                                                                               0004
                     2 | 2023-06-17 00:00:00 | 123230121
                                                                                                          | 2023-07-17 00:00:00 | 2023-07-15 00:00:00
                                                                            0001
                                                                                                          2023-07-24 00:00:00 | 2023-07-23 00:00:00
                     3 | 2023-06-24 00:00:00 | 123230127
                           2023-07-14 00:00:00 | 123230214
                                                                                  0006
                                                                                                          | 2023-08-13 00:00:00 | 2023-08-10 00:00:00
                     5 | 2023-07-23 00:00:00 | 123230134
                                                                                                          | 2023-08-22 00:00:00 | 2023-08-20 00:00:00
                                                                                  0002
                           2023-07-24 00:00:00 | 123230128
                                                                                   0007
                                                                                                          | 2023-08-23 00:00:00 | 2023-08-21 00:00:00
                        | 2023-08-01 00:00:00 | 123230001
                                                                                   0005
                                                                                                          | 2023-08-31 00:00:00 | 2023-08-30 00:00:00
                          2023-08-10 00:00:00 | 123230067
                                                                                   0003
                                                                                                          | 2023-09-09 00:00:00 | 2023-09-08 00:00:00
                     9 | 2023-09-01 00:00:00 | 123230147
                                                                               1 0007
                                                                                                          2023-10-01 00:00:00 | 2023-09-24 00:00:00
9 rows in set (0.00 sec)
mvsal> ^c
```

SELECT Kode_buku, Judul, 0.9 * (Harga_Sebulan * 12) AS Harga_Setahun_Diskon FROM Buku;

Hasil:

1	+	+	++
2	Kode_buku	Judul	Harga_Setahun_Diskon
3	+	+	++
4	0001	Kalkulus E. 9 J. 1	378000.0
5	0002	Matematika Diskrit	135000.0
6	0003	Teori Aplikasi C++	189000.0
7	0004	Delphi Accounting	172800.0
8	0005	Delphi Firebird	162000.0
9	0006	Perpustakaan PHP	118800.0
10	0007	Konsep Teknologi	48600.0
11	8000	Meditation	97200.0
12	+	+	++
		. (0.00	

8 rows in set (0,00 sec)

