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Kampus : Universitas Trunojoyo Madura

Database : db_penjualan_buku

Praktikum:

1. Setup

```
Setting environment for using XAMPP for Windows.
Natasya@NATASYA c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 12
Server version: 10.4.32-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.
```

2. Membuat database baru CREATE DATABASE nama database;

```
MariaDB [(none)]> CREATE DATABASE db_penjualan_buku;
Query OK, 1 row affected (0.012 sec)
```

Menampilkan daftar database yang ada mengggunakan SHOW DATABASES;

3. Memilih database menggunakan USE nama database;

```
MariaDB [(none)]> use db_penjualan_buku;
Database changed
```

4. Membuat beberapa table baru menggunakan CREATE TABLE nama_table (atribut);

```
MariaDB [(none)]> use db_penjualan_buku;

Database changed

MariaDB [db_penjualan_buku]> CREATE TABLE users (
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(255) NOT NULL,
    -> email VARCHAR(255) NOT NULL UNIQUE,
    -> password VARCHAR(255) NOT NULL,
    -> role ENUM('customer','admin') NOT NULL
    -> );

Query OK, 0 rows affected (0.021 sec)

MariaDB [db_penjualan_buku]> CREATE TABLE authors (
    -> id INT AUTO INCREMENT PRIMARY KEY
```

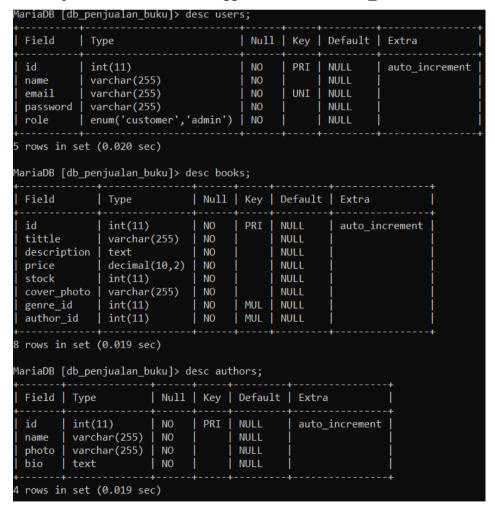
```
-> id INT AUTO INCREMENT PRIMARY KEY,
    -> name VARCHAR(255) NOT NULL,
    -> photo VARCHAR(255) NOT NULL,
    -> bio TEXT NOT NULL
Query OK, 0 rows affected (0.029 sec)
MariaDB [db_penjualan_buku]> CREATE TABLE genres (
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> name VARCHAR(255) NOT NULL,
    -> description TEXT NOT NULL
Query OK, 0 rows affected (0.028 sec)
MariaDB [db_penjualan_buku]> CREATE TABLE books (
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> tittle VARCHAR(255) NOT NULL,
    -> description TEXT NOT NULL,
    -> price DECIMAL(10,2) NOT NULL,
    -> stock INT NOT NULL,
    -> cover_photo VARCHAR(255) NOT NULL,
    -> genre_id INT NOT NULL,
    -> author_id INT NOT NULL,
    -> FOREIGN KEY (genre_id) REFERENCES genres(id),
    -> FOREIGN KEY (author id) REFERENCES authors(id)
    -> );
Query OK, 0 rows affected (0.040 sec)
MariaDB [db_penjualan_buku]> CREATE TABLE transactions (
    -> id INT AUTO_INCREMENT PRIMARY KEY,
    -> order_number VARCHAR(255) NOT NULL UNIQUE,
    -> customer_id INT NOT NULL,
    -> books_id INT NOT NULL,
    -> total_amount DECIMAL(10,2) NOT NULL,
    -> FOREIGN KEY (customer_id) REFERENCES genres(id),
    -> FOREIGN KEY (book_id) REFERENCES books(id)
    -> );
```

Pada table books dan transactions terdapat FOREIGN KEY (atribut dari table utama) REFERENCES nama_table yang ingin dihubungkan(atribut); untuk menghubungkan 1 table dengan table yang lain.

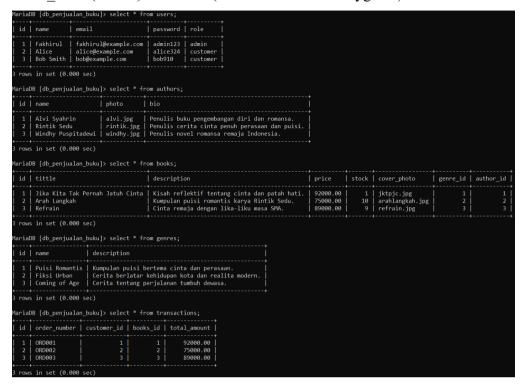
5. Menampilkan table yang telah dibuat menggunakan SHOW TABLES;

```
MariaDB [db_penjualan_buku]> show tables;
+-----+
| Tables_in_db_penjualan_buku |
+-----+
| authors |
| books |
| genres |
| transactions |
| users |
+-----+
5 rows in set (0.001 sec)
```

6. Menampilkan struktur table menggunakan DESC nama table;



7. Menambahkan 3 data awal di beberapa table menggunakan INSERT INTO nama table (atribut) VALUES (isi data sesuai atribut yg ada).



Tugas:

Menambahkan 5 data menggunakan INSERT INTO nama_table (atribut)
 VALUES (isi data sesuai atribut yg ada).

```
/ALUES (ISI data session lariaDB [db_penjualan_buku]> INSERT INTO users (name, email, pas:
                                                                                email, password, role) VALUES
-> ('Jake Enhypen', 'jake@admin.com', 'enha24', 'customer')
-> ('Jay Enhypen', 'jay@admin.com', 'enha23', 'customer'),
-> ('tenZ', 'tenz@sen.com', 'senE1', 'customer'),
-> ('f0rsaken', 'f0rsaken@prx.com', 'prxE1', 'customer'),
-> ('famouz', 'famouz@boom.com', 'boomE1', 'customer');

Query OK, 5 rows affected (0.015 sec)
Records: 5 Duplicates: 0 Warnings: 0
MariaDB [db_penjualan_buku]> select * from users;
                                email
   id | name
                                                                  password
                                                                                  role
          Fakhirul
                                 fakhirul@example.com
                                                                   admin123
                                                                                   admin
          Alice
                                 alice@example.com
                                                                   alice324
                                                                                   customer
          Bob Smith
                                 bob@example.com
                                                                   bob910
                                                                                   customer
          Jake Enhypen
                                 jake@admin.com
                                                                   enha24
                                                                                   customer
          Jay Enhypen
                                 jay@admin.com
                                                                   enha23
                                                                                   customer
          tenZ
                                 tenz@sen.com
                                                                   senE1
                                                                                   customer
          f0rsaken
                                 f0rsaken@prx.com
                                                                   prxE1
                                                                                   customer
                                 famouz@boom.com
          famouz
                                                                   boomE1
                                                                                   customer
  rows in set (0.000 sec)
```

```
MariaDB [db_penjualan_buku]> INSERT INTO authors (name, photo, bio) VALUES

-> ('Tere Liye', 'tereliye.jpg', 'Penulis terkenal Indonesia dengan banyak novel populer.'),
-> ('Ika Natassa', 'ika.jpg', 'Penulis novel romance dan kehidupan urban.'),
-> ('Dee Lestari', 'dee.jpg', 'Penulis novel spiritual dan romansa.'),
-> ('Anya Saraswati', 'anya.jpg', 'Penulis muda dengan gaya romantis.'),
-> ('Anya Saraswati', 'anya.jpg', 'Penulis muda dengan gaya romantis yang segar.');
Query OK, 5 rows affected (0.006 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [db_penjualan_buku]> INSERT INTO genres (name, description) VALUES
-> ('Romansa', 'Genre yang berfokus pada hubungan romantis.'),
-> ('Spiritual', 'Novel dengan nilai-nilai kehidupan dan religius.'),
-> ('Fiksi Remaja', 'Fiksi yang cocok untuk kalangan muda.'),
-> ('Fiksi Remaja', 'Fiksi yang cocok untuk kalangan muda.'),
-> ('Motivasi', 'Buku yang memberikan inspirasi hidup.');
Query OK, 5 rows affected (0.016 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [db_penjualan_buku]> INSERT INTO books (tittle, description, price, stock, cover_photo, genre_id, author_id) VALUES
-> ('Rujan', 'Novel tentang cinta dan kehilangan karya Tere Liye.', 95000, 10, 'hujan.jpg', 4, 4),
-> ('Critical Eleven', 'Cinta dan kehilangan karya Tere Liye.', 95000, 10, 'hujan.jpg', 4, 4),
-> ('Perahu kertas', 'Cerita cinta remaja karya Dee Lestari.', 100000, 7, 'perahukertas.jpg', 7, 6),
-> ('Perahu kertas', 'Kisah cinta masa SMA karya Boy Candra', 80000, 12, 'senjadangai.jpg', 4, 8),
-> ('Sinta Dalam Diam', 'Romansa islami dengan makna dalam karya Anya Saraswati.', 85000, 8, 'cintadalamdiam.jpg', 7, 8);
Query OK, 5 rows affected (0.016 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB (db_penjualan_buku)> INSERT INTO transactions (order_number, customer_id, books_id, total_amount) VALUES
-> ('ORDOOS', 5, 5, 120000),
-> ('ORDOOS', 6, 6, 100000),
-> ('ORDOOS', 7, 7, 80000),
-> ('ORDOOS', 7, 7, 80000),
-> ('ORDOOS', 8, 8, 85000);
Query OK, 5 rows affected (0.016 sec)
Records: 5 Duplicates
```

2. Ubah data:

Mengupdate customer_id pada table transactions berdasarkan customer_id

```
MariaDB [db_penjualan_buku]> UPDATE transactions SET customer_id = 8 WHERE customer_id = 1;
Query OK, 1 row affected (0.015 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

Data awal:

```
MariaDB [db_penjualan_buku]> select * from transactions;
  id | order_number | customer_id | books_id | total_amount
                                            1
  1
      ORD001
                                 1
                                                    92000.00
                                 2
                                            2
  2
      ORD002
                                                    75000.00
                                 3
  3
       ORD003
                                                    89000.00
  4
       ORD004
                                 4
                                            4
                                                    95000.00
  5
                                 5
                                            5
       ORD005
                                                   120000.00
                                 6
                                            6
  6
       ORD006
                                                   100000.00
   7
       ORD007
                                                    80000.00
                                            8
     ORD008
                                 8
  8
                                                    85000.00
 rows in set (0.000 sec)
```

Hasil setelah diubah:

MariaDB [db_penjualan_buku]> select * from transactions;				
id	order_number	customer_id	books_id	total_amount
1 1	ORD001	8	1	92000.00
2	ORD002	2	2	75000.00
3	ORD003	3	3	89000.00
4	ORD004	4	4	95000.00
5	ORD005	5	5	120000.00
6	ORD006	6	6	100000.00
7	ORD007	7	7	80000.00
8	ORD008	8	8	85000.00
++				
8 rows in set (0.000 sec)				

- Mengubah kolom "tittle" pada table books menjadi "title".

```
MariaDB [db_penjualan_buku]> ALTER TABLE books CHANGE tittle title VARCHAR(255) NOT NULL;
Query OK, 0 rows affected (0.018 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [db_penjualan_buku]> desc books;
  Field
                 Type
                                    | Null | Key | Default | Extra
                                                                   auto_increment
                   int(11)
                                                       NULL
                   varchar(255)
                                       NO
                                                       NULL
  description
                   text
                                       NO
                                                       NULL
  price
                   decimal(10,2)
                                                       NULL
                                      NO
                   int(11)
varchar(255)
  stock
                                      NO
                                                       NULL
  cover_photo
                                       NO
                                                       NULL
  genre_id
                   int(11)
                                       NO
                                               MUL
                                                       NULL
  author_id
                   int(11)
                                       NO
                                               MUL
                                                       NULL
```

- Mengupdate role pada table users berdasarkan id 2.

```
MariaDB [db_penjualan_buku]> UPDATE users SET role = 'admin' WHERE id = 2;
Query OK, 1 row affected (0.015 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

Data awal:

Hasil seteleh diubah:

3. Hapus data:

- Menambahkan 1 data yang nantinya akan dihapus.

```
MariaDB [db_penjualan_buku]> INSERT INTO users (name, email, password, role) VALUES
-> ('Monyet', 'rrqmonyet@monyet.com', 'rrqE1', 'customer');
Query OK, 1 row affected (0.016 sec)
MariaDB [db penjualan buku]> select * from users;
                                            | password | role
       Fakhirul
                     | fakhirul@example.com |
                                              admin123
                                                          admin
       Alice
                      alice@example.com
                                              alice324
                                                          admin
       Bob Smith
                     | bob@example.com
                                              bob910
                                                          customer
       Jake Enhypen | jake@admin.com
                                              enha24
                                                          customer
                      jay@admin.com
       Jay Enhypen
                                              enha23
                                                          customer
       tenZ
                      tenz@sen.com
                                              senE1
                                                          customer
       f0rsaken
                      f0rsaken@prx.com
                                              prxE1
                                                          customer
       famouz
                                              boomE1
                      famouz@boom.com
   8
                                                          customer
      Monyet
                      rrqmonyet@monyet.com
                                              rrqE1
                                                          customer
9 rows in set (0.000 sec)
```

- Menghapus 1 data baru yaitu id 9.

```
MariaDB [db_penjualan_buku]> DELETE FROM users WHERE id = 9;
Query OK, 1 row affected (0.015 sec)
MariaDB [db penjualan buku]> select * from users;
                    email
  id | name
                                            password role
      Fakhirul
                     fakhirul@example.com
  1
                                            admin123
                                                       admin
                     alice@example.com
   2
      Alice
                                            alice324
                                                       admin
      Bob Smith
   3
                     bob@example.com
                                            bob910
                                                       customer
      Jake Enhypen
                     jake@admin.com
   4
                                            enha24
                                                       customer
   5
      Jay Enhypen
                     jay@admin.com
                                            enha23
                                                       customer
                                            senE1
   6
      tenZ
                     tenz@sen.com
                                                       customer
   7
      f0rsaken
                     f0rsaken@prx.com
                                            prxE1
                                                       customer
                    famouz@boom.com
     famouz
   8
                                            boomE1
                                                       customer
 rows in set (0.000 sec)
```