

1. Membuat database “myshop”

```
MariaDB [(none)]> create database myshop;
Query OK, 1 row affected (0.011 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| alboem   |
| dvwa     |
| information_schema |
| myshop    |
| mysql    |
| performance_schema |
| phpmyadmin |
| test     |
+-----+
8 rows in set (0.002 sec)
```

2. Membuat tabel baru users, items, dan categories

- Tabel categories

```
MariaDB [(none)]> use myshop;
Database changed
MariaDB [myshop]> create table categories(
    -> id int(10) auto_increment,
    -> name varchar(255),
    -> primary key(id)
    -> );
Query OK, 0 rows affected (0.121 sec)

MariaDB [myshop]> describe categories;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int(10)       | NO   | PRI | NULL    | auto_increment |
| name  | varchar(255)  | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.089 sec)
```

- Tabel items

```
MariaDB [myshop]> create table items(
    -> id int(10) auto_increment,
    -> name varchar(255),
    -> description varchar(255),
    -> price int,
    -> stock int,
    -> category_id int,
    -> primary key(id),
    -> foreign key(category_id) references categories(id)
    -> );
Query OK, 0 rows affected (0.096 sec)
```

```
MariaDB [myshop]> describe items;
```

Field	Type	Null	Key	Default	Extra
id	int(10)	NO	PRI	NULL	auto_increment
name	varchar(255)	YES		NULL	
description	varchar(255)	YES		NULL	
price	int(11)	YES		NULL	
stock	int(11)	YES		NULL	
category_id	int(11)	YES	MUL	NULL	

```
6 rows in set (0.096 sec)
```

- Tabel users

```
MariaDB [myshop]> create table users(
  -> id int(10) auto_increment,
  -> name varchar(255),
  -> email varchar(255),
  -> password varchar(255),
  -> primary key(id)
  -> );
```

```
Query OK, 0 rows affected (0.078 sec)
```

```
MariaDB [myshop]> describe users;
```

Field	Type	Null	Key	Default	Extra
id	int(10)	NO	PRI	NULL	auto_increment
name	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	

```
4 rows in set (0.094 sec)
```

### 3. Memasukkan data pada tabel

- Tabel categories

```
MariaDB [myshop]> insert into categories(name) values("gadget"), ("cloth"), ("men"),
  ("women"), ("branded");
```

```
Query OK, 5 rows affected (0.018 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
MariaDB [myshop]> select * from categories;
```

id	name
1	gadget
2	cloth
3	men
4	women
5	branded

```
5 rows in set (0.010 sec)
```

- Tabel items

```
MariaDB [myshop]> insert into items(name, description, price, stock, category_id) values(
  -> "Sumsang b50", "hape keren dari merek sumsang", 4000000, 100, 1),
  -> ("Uniklooh", "baju keren dari brand ternama", 500000, 50, 2),
  -> ("IMHO Watch", "jam tangan anak yang jujur banget", 2000000, 10, 1);
Query OK, 3 rows affected (0.014 sec)
Records: 3 Duplicates: 0 Warnings: 0

MariaDB [myshop]> select * from items;
+----+-----+-----+-----+-----+-----+
| id | name      | description                               | price  | stock | category_id |
+----+-----+-----+-----+-----+-----+
| 1  | Sumsang b50 | hape keren dari merek sumsang           | 4000000 | 100   | 1           |
| 2  | Uniklooh   | baju keren dari brand ternama           | 500000  | 50    | 2           |
| 3  | IMHO Watch | jam tangan anak yang jujur banget       | 2000000 | 10    | 1           |
+----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

- Tabel users

```
MariaDB [myshop]> insert into users(name, email, password) values(
  -> "John Doe", "john@doe.com", "john123"),
  -> ("Jane Doe", "jane@doe.com", "jenita123");
Query OK, 2 rows affected (0.011 sec)
Records: 2 Duplicates: 0 Warnings: 0

MariaDB [myshop]> select * from users;
+----+-----+-----+-----+
| id | name    | email        | password |
+----+-----+-----+-----+
| 2  | John Doe | john@doe.com | john123  |
| 3  | Jane Doe | jane@doe.com | jenita123 |
+----+-----+-----+-----+
2 rows in set (0.001 sec)
```

#### 4. Mengambil data dari database

##### a. Mengambil data users kecuali password

```
MariaDB [myshop]> select id, name, email from users;
+----+-----+-----+
| id | name    | email        |
+----+-----+-----+
| 2  | John Doe | john@doe.com |
| 3  | Jane Doe | jane@doe.com |
+----+-----+-----+
2 rows in set (0.008 sec)
```

##### b. Mengambil data items

- query untuk mendapatkan data item pada table items yang memiliki harga di atas 1000000 (satu juta)

```
MariaDB [myshop]> select * from items where price > 1000000;
+----+-----+-----+-----+-----+-----+
| id | name      | description                               | price  | stock | category_id |
+----+-----+-----+-----+-----+-----+
| 1  | Sumsang b50 | hape keren dari merek sumsang           | 4000000 | 100   | 1           |
| 3  | IMHO Watch | jam tangan anak yang jujur banget       | 2000000 | 10    | 1           |
+----+-----+-----+-----+-----+-----+
2 rows in set (0.010 sec)
```

- query untuk mengambil data item pada table items yang memiliki name serupa atau mirip (like) dengan kata kunci “uniklo”, “watch”, atau “sang” (pilih salah satu saja)

```
MariaDB [myshop]> select * from items where name like "unik%";
```

id	name	description	price	stock	category_id
2	Uniklooh	baju keren dari brand ternama	500000	50	2

```
1 row in set (0.001 sec)
```

c. Menampilkan data items join dengan kategori

```
MariaDB [myshop]> select items.id, items.name, items.description, items.price, items.stock, items.category_id, categories.name as kategori from items left join categories on items.category_id = categories.id;
```

id	name	description	price	stock	category_id	kategori
1	Sumsang b50	hape keren dari merek sumsang	4000000	100	1	gadget
2	Uniklooh	baju keren dari brand ternama	500000	50	2	cloth
3	IMHO Watch	jam tangan anak yang jujur banget	2000000	10	1	gadget

```
3 rows in set (0.018 sec)
```

5. Ubah data pada table items untuk item dengan nama sumsang harganya (price) menjadi 2500000. Masukkan query pada text jawaban di nomor ke 5.

```
MariaDB [myshop]> update items set price = 2500000 where id = 1;
Query OK, 1 row affected (0.126 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [myshop]> select * from items;
```

id	name	description	price	stock	category_id
1	Sumsang b50	hape keren dari merek sumsang	2500000	100	1
2	Uniklooh	baju keren dari brand ternama	500000	50	2
3	IMHO Watch	jam tangan anak yang jujur banget	2000000	10	1

```
3 rows in set (0.009 sec)
```