

Tugas 12 Membuat Database

TUGAS Pertemuan 12
FSWD (Database 1):

- Buat langkah-langkah menghubungkan database ke aplikasi DBMS
- Buat sebuah database dengan nama *arkatama_store* dengan struktur table sebagaimana gambar 1
- Isi masing-masing table dengan data sebanyak 10 row
- Simpan query dan screenshot struktur tabel yang sudah dibuat
- Kumpulkan semua tugas di atas dalam bentuk PDF dan submit ke aplikasi Sinauo

Gambar 1. ERD *arkatama_store*

The ERD diagram for the *arkatama_store* database shows four tables: **pengguna**, **produk**, **kategori**, and **item**. Each table's attributes and data types are as follows:

- pengguna**:
 - id (PK, INT(11) NOT NULL)
 - nama (VARCHAR(100) NOT NULL)
 - email (VARCHAR(100) NOT NULL)
 - password (VARCHAR(100) NOT NULL)
 - role (ENUM: admin, user)
- produk**:
 - id (PK, INT(11) NOT NULL)
 - nama (VARCHAR(100) NOT NULL)
 - deskripsi (TEXT NOT NULL)
 - harga (DECIMAL(15, 2) NOT NULL)
 - status (ENUM: tersedia, habis)
 - kategori_id (FK, INT(11) NOT NULL)
 - supplier_id (FK, INT(11) NOT NULL)
 - created_at (TIMESTAMP NOT NULL)
 - updated_at (TIMESTAMP NOT NULL)
- kategori**:
 - id (PK, INT(11) NOT NULL)
 - nama (VARCHAR(100) NOT NULL)
 - deskripsi (TEXT NOT NULL)
 - parent_id (FK, INT(11) NOT NULL)
- item**:
 - id (PK, INT(11) NOT NULL)
 - nama (VARCHAR(100) NOT NULL)
 - deskripsi (TEXT NOT NULL)
 - harga (DECIMAL(15, 2) NOT NULL)
 - status (ENUM: tersedia, habis)
 - kategori_id (FK, INT(11) NOT NULL)
 - produk_id (FK, INT(11) NOT NULL)
 - created_at (TIMESTAMP NOT NULL)
 - updated_at (TIMESTAMP NOT NULL)

Struktur Table

MariaDB [arkatama_store]> desc categories;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
created_at	datetime	YES		current_timestamp()	
update_at	datetime	YES		current_timestamp()	

4 rows in set (0.038 sec)

MariaDB [arkatama_store]> desc carousels;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
url	varchar(255)	YES		NULL	
banner	varchar(100)	NO		NULL	
is_active	tinyint(1)	YES		NULL	
created_at	datetime	YES		current_timestamp()	
update_at	datetime	YES		current_timestamp()	

7 rows in set (0.058 sec)

MariaDB [arkatama_store]> desc products;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
category_id	int(11)	NO		NULL	
name	varchar(100)	NO		NULL	
description	text	NO		NULL	
price	decimal(10,2)	NO		NULL	
status	enum('accepted','rejected','waiting')	NO		NULL	
created_at	datetime	YES		current_timestamp()	
updated_at	datetime	YES		current_timestamp()	
created_by	int(11)	NO		NULL	
verified_at	datetime	YES		current_timestamp()	
verified_by	int(11)	YES		NULL	

11 rows in set (0.018 sec)

MariaDB [arkatama_store]> desc users;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
category_id	int(11)	NO		NULL	
email	varchar(100)	NO		NULL	
name	varchar(100)	NO		NULL	
role	enum('admin','admin')	NO		NULL	
avatar	varchar(100)	YES		NULL	
phone	varchar(15)	NO		NULL	
address	varchar(255)	NO		NULL	
password	varchar(255)	NO		NULL	
created_at	datetime	YES		current_timestamp()	
updated_at	datetime	YES		current_timestamp()	

11 rows in set (0.018 sec)

1. Membuat DataBase

```
MariaDB [(none)]> show databases
-> ;
+-----+
| Database |
+-----+
| arkatama_store |
| ci_barang      |
| information_schema |
| kesehatan      |
| mysql          |
| pengaduan_masyarakat |
| performance_schema |
| phpmyadmin     |
| test           |
+-----+
9 rows in set (0.034 sec)

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

2. Create Table

Categories

```
MariaDB [arkatama_store]> create table categories (id int(11) not null primary key auto_increment, name varchar(100) not null, created_at datetime, update_at datetime);
Query OK, 0 rows affected (0.098 sec)
```

```
MariaDB [arkatama_store]> desc categories;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int(11) | NO | PRI | NULL | auto_increment |
| name  | varchar(100) | NO | | NULL | |
| created_at | datetime | YES | | NULL | |
| update_at | datetime | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.019 sec)
```

Setting Default Datetime

```
MariaDB [arkatama_store]> ALTER TABLE categories MODIFY created_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.146 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [arkatama_store]> ALTER TABLE categories MODIFY update_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.040 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Insert data

```
MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories five');
Query OK, 1 row affected (0.006 sec)

MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories six');
Query OK, 1 row affected (0.021 sec)

MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories seven');
Query OK, 1 row affected (0.004 sec)

MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories eight');
Query OK, 1 row affected (0.004 sec)

MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories nine');
Query OK, 1 row affected (0.006 sec)

MariaDB [arkatama_store]> INSERT INTO categories (name) VALUES
-> ('Categories ten');
Query OK, 1 row affected (0.005 sec)

MariaDB [arkatama_store]> select * from categories;
+-----+-----+-----+-----+
| id | name | created_at | update_at |
+-----+-----+-----+-----+
| 1 | Categories One | 2023-04-02 13:47:13 | 2023-04-02 13:47:13 |
| 2 | Categories two | 2023-04-02 13:47:26 | 2023-04-02 13:47:26 |
| 3 | Categories three | 2023-04-02 13:47:33 | 2023-04-02 13:47:33 |
| 4 | Categories four | 2023-04-02 13:47:53 | 2023-04-02 13:47:53 |
| 5 | Categories five | 2023-04-02 13:48:04 | 2023-04-02 13:48:04 |
| 6 | Categories six | 2023-04-02 13:48:18 | 2023-04-02 13:48:18 |
| 7 | Categories seven | 2023-04-02 13:48:24 | 2023-04-02 13:48:24 |
| 8 | Categories eight | 2023-04-02 13:48:32 | 2023-04-02 13:48:32 |
| 9 | Categories nine | 2023-04-02 13:48:44 | 2023-04-02 13:48:44 |
| 10 | Categories ten | 2023-04-02 13:48:52 | 2023-04-02 13:48:52 |
+-----+-----+-----+-----+
10 rows in set (0.000 sec)
```

Carousels

```
MariaDB [arkatama_store]> create table carousels (id int(11) not null primary key auto_increment, name varchar(100) not null, url varchar(255), banner varchar(100) not null, is_active tinyint(1), created_at datetime, update_at datetime);
Query OK, 0 rows affected (0.040 sec)
```

```
MariaDB [arkatama_store]> desc carousels;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int(11) | NO | PRI | NULL | auto_increment |
| name | varchar(100) | NO | | NULL | |
| url | varchar(255) | YES | | NULL | |
| banner | varchar(100) | NO | | NULL | |
| is_active | tinyint(1) | YES | | NULL | |
| created_at | datetime | YES | | NULL | |
| update_at | datetime | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.075 sec)
```

Seeting Default Datetime

```
MariaDB [arkatama_store]> ALTER TABLE carousels MODIFY update_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.026 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [arkatama_store]> ALTER TABLE carousels MODIFY created_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.024 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Insert data

```

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner5', '0');
Query OK, 1 row affected (0.004 sec)

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner6', '0');
Query OK, 1 row affected (0.010 sec)

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner7', '0');
Query OK, 1 row affected (0.003 sec)

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner8', '0');
Query OK, 1 row affected (0.003 sec)

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner9', '0');
Query OK, 1 row affected (0.004 sec)

MariaDB [arkatama_store]> INSERT INTO carousels (name, url, banner, is_active) VALUES
-> ('Carousel One', 'http://google.com', 'Banner10', '0');
Query OK, 1 row affected (0.010 sec)

MariaDB [arkatama_store]> select * from carousels;
+-----+-----+-----+-----+-----+-----+-----+
| id | name | url | banner | is_active | created_at | update_at |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Carousel One | http://oncarousel.com | Banner1 | 0 | 2023-04-02 13:40:27 | 2023-04-02 13:40:27 |
| 2 | Carousel One | http://google.com | Banner2 | 0 | 2023-04-02 13:40:55 | 2023-04-02 13:40:55 |
| 3 | Carousel One | http://google.com | Banner3 | 0 | 2023-04-02 13:41:54 | 2023-04-02 13:41:54 |
| 4 | Carousel One | http://google.com | Banner4 | 0 | 2023-04-02 13:42:32 | 2023-04-02 13:42:32 |
| 5 | Carousel One | http://google.com | Banner5 | 0 | 2023-04-02 13:43:13 | 2023-04-02 13:43:13 |
| 6 | Carousel One | http://google.com | Banner6 | 0 | 2023-04-02 13:43:36 | 2023-04-02 13:43:36 |
| 7 | Carousel One | http://google.com | Banner7 | 0 | 2023-04-02 13:43:42 | 2023-04-02 13:43:42 |
| 8 | Carousel One | http://google.com | Banner8 | 0 | 2023-04-02 13:43:48 | 2023-04-02 13:43:48 |
| 9 | Carousel One | http://google.com | Banner9 | 0 | 2023-04-02 13:43:53 | 2023-04-02 13:43:53 |
| 10 | Carousel One | http://google.com | Banner10 | 0 | 2023-04-02 13:44:00 | 2023-04-02 13:44:00 |
+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.032 sec)

```

Products

```

MariaDB [arkatama_store]> CREATE TABLE products(
-> id int (11) NOT null PRIMARY KEY AUTO_INCREMENT,
-> category_id int (11) NOT null,
-> name varchar (100) NOT null,
-> description text NOT null,
-> price decimal (10,2) NOT null,
-> status ENUM ('accepted','rejected','waiting') NOT null,
-> created_at datetime,
-> updated_at datetime,
-> created_by int (11) NOT null,
-> verified_at datetime,
-> verified_by int (11));
Query OK, 0 rows affected (0.037 sec)

```

```
MariaDB [arkatama_store]> desc products;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
category_id	int(11)	NO		NULL	
name	varchar(100)	NO		NULL	
description	text	NO		NULL	
price	decimal(10,2)	NO		NULL	
status	enum('accepted','rejected','waiting')	NO		NULL	
created_at	datetime	YES		NULL	
updated_at	datetime	YES		NULL	
created_by	int(11)	NO		NULL	
verified_at	datetime	YES		NULL	
verified_by	int(11)	YES		NULL	

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

Setting Default Datetime

```
MariaDB [arkatama_store]> ALTER TABLE products MODIFY created_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.062 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [arkatama_store]> ALTER TABLE products MODIFY updated_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.056 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [arkatama_store]> ALTER TABLE products MODIFY verified_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.025 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Insert Data

```
MariaDB [arkatama_store]> INSERT INTO products (category_id, name, description, price, status, created_by) VALUES
-> ('17', 'products satu', 'belanja1', '8,000', 'accepted', '42219024');
Query OK, 1 row affected, 1 warning (0.027 sec)

MariaDB [arkatama_store]> INSERT INTO products (category_id, name, description, price, status, created_by) VALUES
-> ('18', 'products satu', 'belanja1', '8,000', 'accepted', '42219024');
Query OK, 1 row affected, 1 warning (0.029 sec)

MariaDB [arkatama_store]> INSERT INTO products (category_id, name, description, price, status, created_by) VALUES
-> ('19', 'products satu', 'belanja1', '8,000', 'accepted', '42219024');
Query OK, 1 row affected, 1 warning (0.028 sec)

MariaDB [arkatama_store]> INSERT INTO products (category_id, name, description, price, status, created_by) VALUES
-> ('20', 'products satu', 'belanja1', '8,000', 'accepted', '42219024');
Query OK, 1 row affected, 1 warning (0.008 sec)

MariaDB [arkatama_store]> select * from products;
```

	id	category_id	name	description	price	status	created_at	updated_at	created_by	verified_at	verified_by
1	11	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
2	12	products dua	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
3	13	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
4	14	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
5	15	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
6	16	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
7	17	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
8	18	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
9	19	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	
10	20	products satu	belanja1	8.00	accepted	NULL	NULL	42219024	NULL	NULL	

```
10 rows in set (0.003 sec)

MariaDB [arkatama_store]> ALTER TABLE products MODIFY created_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.062 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [arkatama_store]> ALTER TABLE products MODIFY updated_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.056 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Catatan: *lupa setting default datetime di awal, sehingga insert data dulu baru setting... mau tambah row tapi ketentuannya di soal masing-masing 10 row 1 tables.

Users

```
MariaDB [arkatama_store]> CREATE TABLE users(  
-> id int (11) NOT null PRIMARY KEY AUTO_INCREMENT,  
-> category_id int (11) NOT null,  
-> email varchar (100) NOT null,  
-> name varchar (100) NOT null,  
-> role ENUM ('admin','admin') NOT null,  
-> avatar varchar (100),  
-> phone varchar (15) Not null,  
-> address varchar (255) Not null,  
-> password varchar (255) Not null,  
-> created_at datetime,  
-> updated_at datetime);  
Query OK, 0 rows affected, 1 warning (0.085 sec)
```

```
MariaDB [arkatama_store]> desc users;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
category_id	int(11)	NO		NULL	
email	varchar(100)	NO		NULL	
name	varchar(100)	NO		NULL	
role	enum('admin','admin')	NO		NULL	
avatar	varchar(100)	YES		NULL	
phone	varchar(15)	NO		NULL	
address	varchar(255)	NO		NULL	
password	varchar(255)	NO		NULL	
created_at	datetime	YES		NULL	
updated_at	datetime	YES		NULL	

```
11 rows in set (0.041 sec)
```

Setting Default Datetime

```
MariaDB [arkatama_store]> ALTER TABLE users MODIFY created_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected, 1 warning (0.096 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
MariaDB [arkatama_store]> ALTER TABLE users MODIFY updated_at datetime DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected, 1 warning (0.049 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

Insert data

```
MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ('hasanahummul2791@gmail.com', 'users1', 'admin', '085349679801', 'makassar', 'tidakada');
Query OK, 1 row affected, 1 warning (0.022 sec)

MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ('hasanahummul2791@gmail.com', 'users1', 'admin', '085349679801', 'makassar', 'tidakada');
Query OK, 1 row affected, 1 warning (0.003 sec)

MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ('hasanahummul2791@gmail.com', 'users1', 'admin', '085349679801', 'makassar', 'tidakada');
Query OK, 1 row affected, 1 warning (0.020 sec)

MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ('hasanahummul2791@gmail.com', 'users1', 'admin', '085349679801', 'makassar', 'tidakada');
Query OK, 1 row affected, 1 warning (0.021 sec)

MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ('hasanahummul2791@gmail.com', 'users1', 'admin', '085349679801', 'makassar', 'tidakada');
Query OK, 1 row affected, 1 warning (0.021 sec)

MariaDB [arkatama_store]> INSERT INTO users (email, name, role, phone, address, password) VALUES
-> ;
ERROR 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 ''

MariaDB [arkatama_store]> select * from users;
```

id	category_id	email	name	role	avatar	phone	address	password	created_at	updated_at
1	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	NULL	NULL
2	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	NULL	NULL
3	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	NULL	NULL
4	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	NULL	NULL
5	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:01	2023-04-02 14:07:01
6	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:03	2023-04-02 14:07:03
7	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:05	2023-04-02 14:07:05
8	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:06	2023-04-02 14:07:06
9	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:07	2023-04-02 14:07:07
10	0	hasanahummul2791@gmail.com	users1	admin	NULL	85349679801	makassar	tidakada	2023-04-02 14:07:10	2023-04-02 14:07:10

```
10 rows in set (0.023 sec)
```