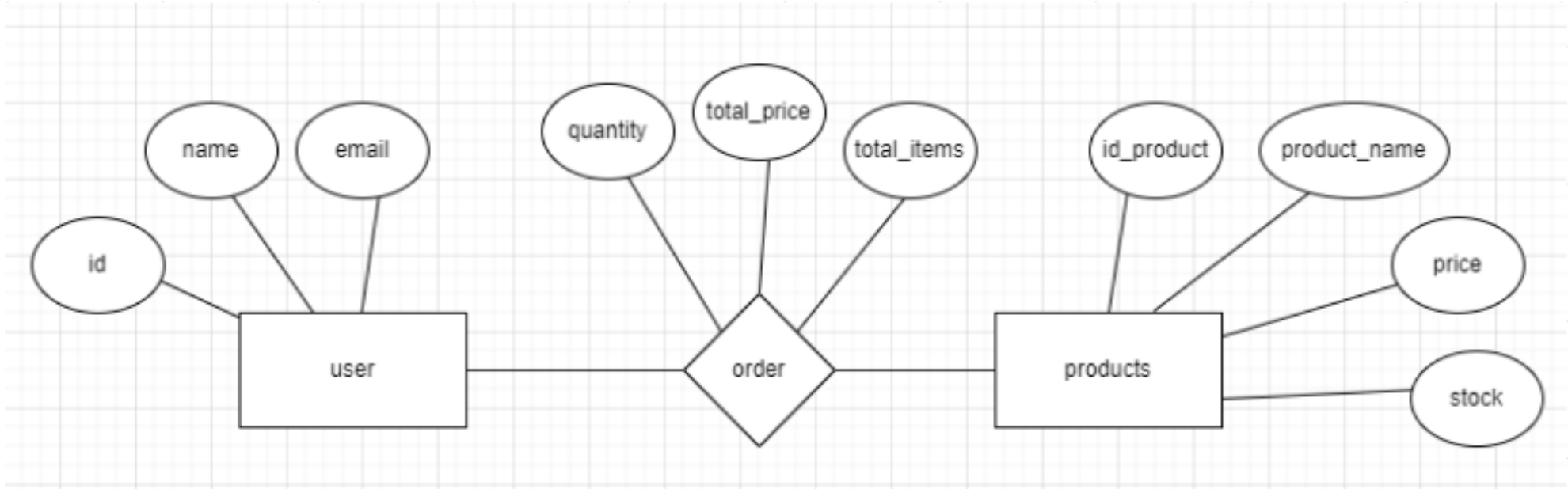
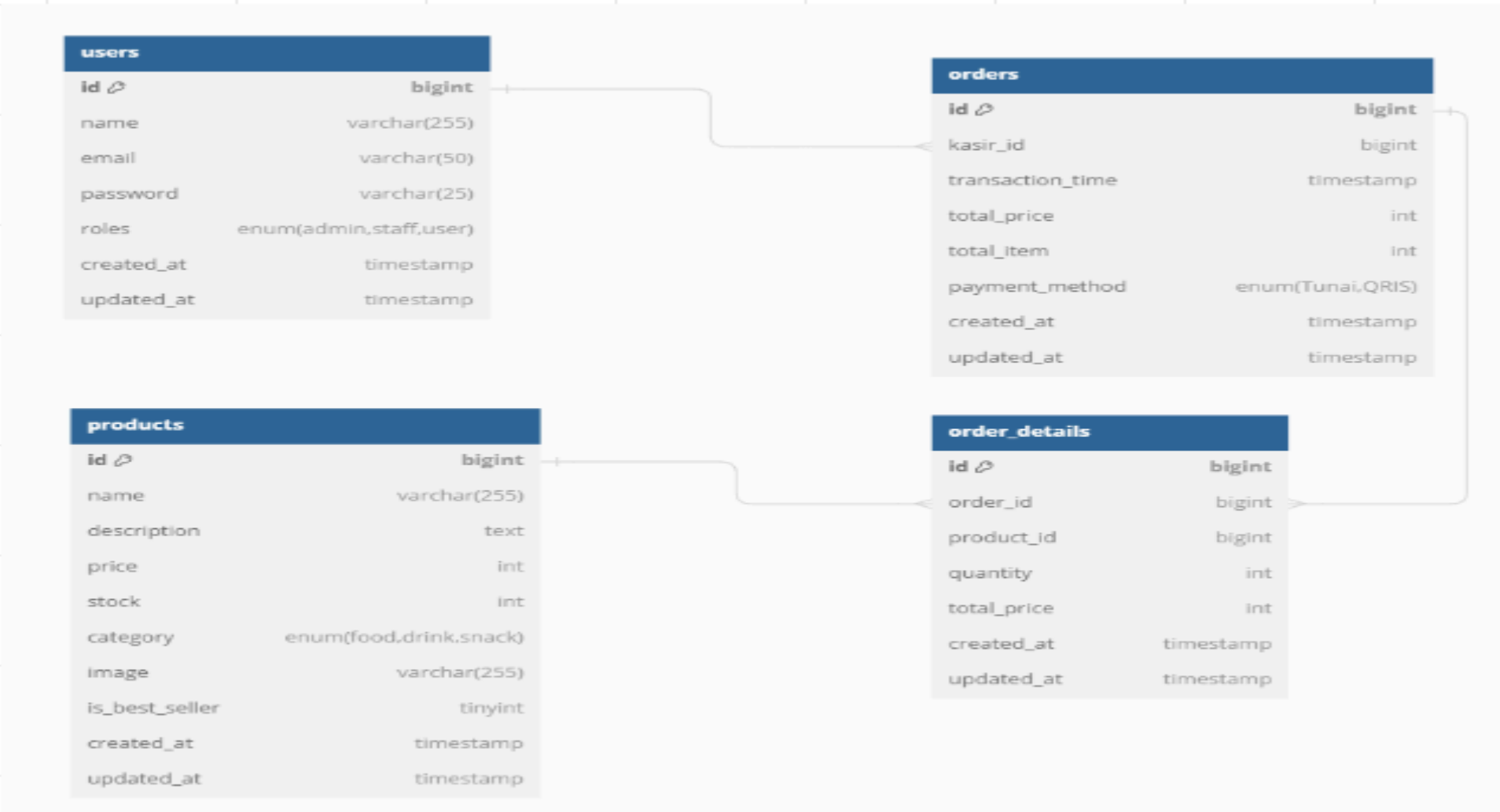
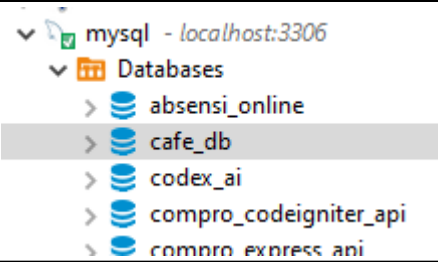
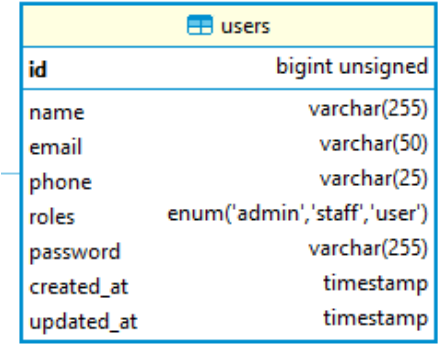
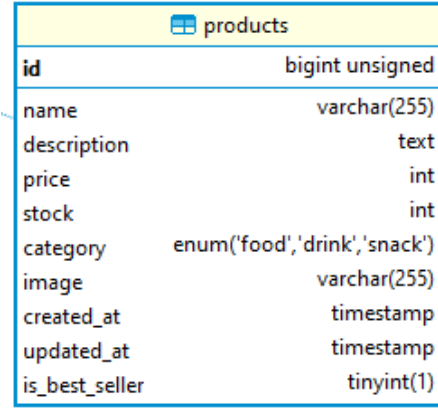


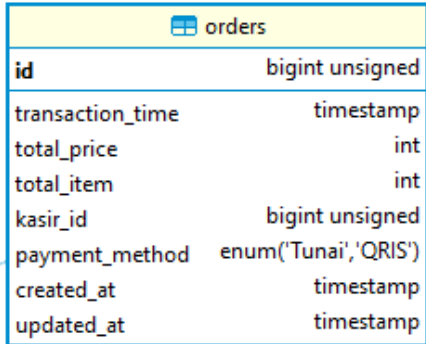
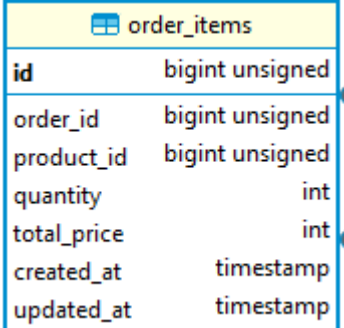
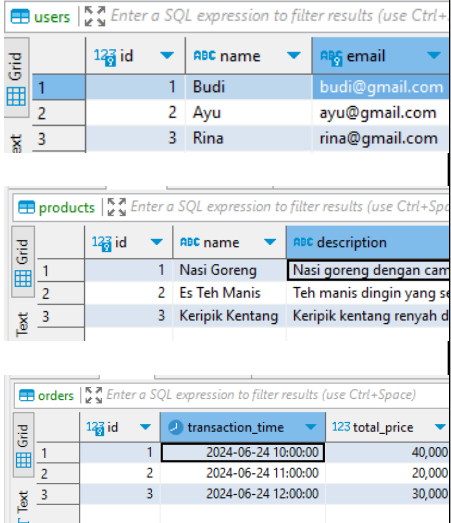
TUGAS KELOMPOK UJI KOMPETENSI BERBASIS INDUSTRI BIDANG SISTEM BASIS DATA

Kelompok : **99**
DMBS : **MariaDB**
Tema : **Aplikasi Order Coffee Shop**
Anggota Kelompok :
1. Ilham Maulana (14230018)
2. Ilham Maulana (14230019)
3. Ilham Maulana (14230020)
4. Ilham Maulana (14230021)
5. Ilham Maulana (14230022)

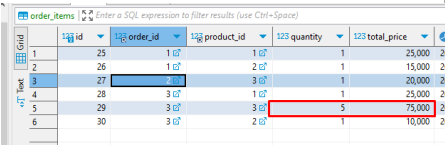
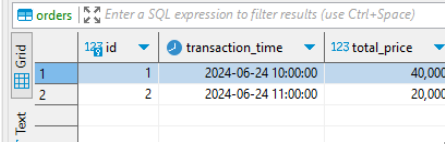
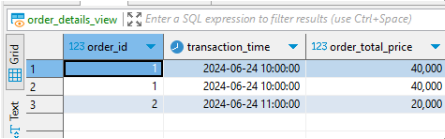
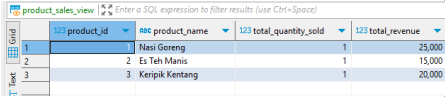
No	Nama Query	Hasil Gambar	Query Sql	Penjelasan Query
	ERD	 <pre>graph LR; user[user] --- order{order}; order --- products[products]; user --- id((id)); user --- name((name)); user --- email((email)); order --- quantity((quantity)); order --- total_price((total_price)); order --- total_items((total_items)); products --- id_product((id_product)); products --- product_name((product_name)); products --- price((price)); products --- stock((stock));</pre>		

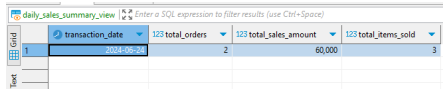
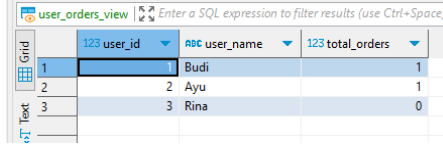
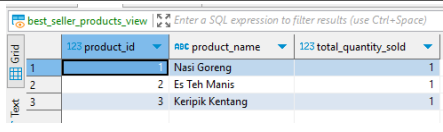
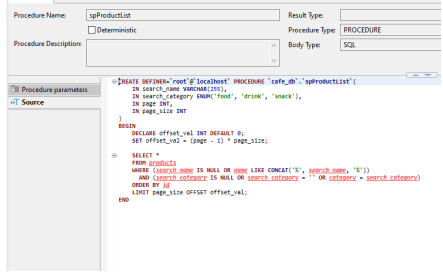
	ER			
No	Nama Query	Hasil Gambar	Query Sql	Penjelasan Query

1	CREATE DATABASE		<pre>CREATE DATABASE cafe_db2; USE cafe_db;</pre>	Membuat database baru dan memilih database
2	CREATE TABLE		<pre>CREATE TABLE `users` (`id` bigint unsigned NOT NULL AUTO_INCREMENT, `name` varchar(255) NOT NULL, `email` varchar(50) NOT NULL, `phone` varchar(25) DEFAULT NULL, `roles` enum('admin','staff','user') NOT NULL DEFAULT 'user', `password` varchar(255) NOT NULL, `created_at` timestamp NULL DEFAULT NULL, `updated_at` timestamp NULL DEFAULT NULL, PRIMARY KEY (`id`), UNIQUE KEY `users_email_unique` (`email`));</pre>	Membuat Tabel users
3	CREATE TABLE		<pre>CREATE TABLE `products` (`id` bigint unsigned NOT NULL AUTO_INCREMENT, `name` varchar(255) NOT NULL, `description` text, `price` int NOT NULL DEFAULT '0', `stock` int NOT NULL DEFAULT '0', `category` enum('food','drink','snack') NOT NULL, `image` varchar(255) DEFAULT NULL, `created_at` timestamp NULL DEFAULT NULL, `updated_at` timestamp NULL DEFAULT NULL, `is_best_seller` tinyint(1) NOT NULL DEFAULT '0', PRIMARY KEY (`id`));</pre>	Membuat Tabel products

4	CREATE TABLE		<pre>CREATE TABLE `orders` (`id` bigint unsigned NOT NULL AUTO_INCREMENT, `transaction_time` timestamp NOT NULL, `total_price` int NOT NULL, `total_item` int NOT NULL, `kasir_id` bigint unsigned NOT NULL, `payment_method` enum('Tunai','QRIS') NOT NULL, `created_at` timestamp NULL DEFAULT NULL, `updated_at` timestamp NULL DEFAULT NULL, PRIMARY KEY (`id`), KEY `orders_kasir_id_foreign` (`kasir_id`), CONSTRAINT `orders_kasir_id_foreign` FOREIGN KEY (`kasir_id`) REFERENCES `users` (`id`));</pre>	Membuat Tabel orders
5	CREATE TABLE		<pre>CREATE TABLE `order_items` (`id` bigint unsigned NOT NULL AUTO_INCREMENT, `order_id` bigint unsigned NOT NULL, `product_id` bigint unsigned NOT NULL, `quantity` int NOT NULL, `total_price` int NOT NULL, `created_at` timestamp NULL DEFAULT NULL, `updated_at` timestamp NULL DEFAULT NULL, PRIMARY KEY (`id`), KEY `order_items_order_id_foreign` (`order_id`), KEY `order_items_product_id_foreign` (`product_id`), CONSTRAINT `order_items_order_id_foreign` FOREIGN KEY (`order_id`) REFERENCES `orders` (`id`), CONSTRAINT `order_items_product_id_foreign` FOREIGN KEY (`product_id`) REFERENCES `products` (`id`));</pre>	Membuat Tabel order_items
6	INSERT		<pre>INSERT INTO `users` (name, email, phone, roles, password, created_at, updated_at) VALUES ('Budi', 'budi@gmail.com', '085644445555', 'user', SHA2('budi123', 256), NOW(), NOW()), ('Ayu', 'ayu@gmail.com', '085655556666', 'user', SHA2('ayu123', 256), NOW(), NOW()), ('Rina', 'rina@gmail.com', '085666667777', 'user', SHA2('rina123', 256), NOW(), NOW()); INSERT INTO `products` (name, description, price, stock, category, image, created_at, updated_at, is_best_seller) VALUES ('Nasi Goreng', 'Nasi goreng dengan campuran sayuran dan daging ayam.', 25000, 50, 'food', 'nasi_goreng.jpg', NOW(), NOW(), 1), ('Es Teh Manis', 'Teh manis dingin yang segar.', 5000, 100, 'drink', 'es_teh_manis.jpg', NOW(), NOW(), 0),</pre>	Menambahkan data kedalam tabel users, products, orders dan order_items

		order_items Enter a SQL expression to filter results (use Ctrl <table><tr><th>Grid</th><th>id</th><th>order_id</th><th>product_id</th></tr><tr><td>1</td><td>25</td><td>1</td><td>1</td></tr><tr><td>2</td><td>26</td><td>1</td><td>2</td></tr><tr><td>3</td><td>27</td><td>2</td><td>3</td></tr></table>	Grid	id	order_id	product_id	1	25	1	1	2	26	1	2	3	27	2	3	<pre>('Keripik Kentang', 'Keripik kentang renyah dengan rasa gurih.', 15000, 30, 'snack', 'keripik_kentang.jpg', NOW(), NOW(), 0); INSERT INTO `orders` (transaction_time, total_price, total_item, kasir_id, payment_method, created_at, updated_at) VALUES ('2024-06-24 10:00:00', 40000, 2, 1, 'Tunai', NOW(), NOW()), ('2024-06-24 11:00:00', 20000, 1, 2, 'QRIS', NOW(), NOW()), ('2024-06-24 12:00:00', 30000, 3, 1, 'Tunai', NOW(), NOW()); INSERT INTO `order_items` (order_id, product_id, quantity, total_price, created_at, updated_at) VALUES (1, 1, 1, 25000, NOW(), NOW()), (1, 2, 1, 15000, NOW(), NOW()); INSERT INTO `order_items` (order_id, product_id, quantity, total_price, created_at, updated_at) VALUES (2, 3, 1, 20000, NOW(), NOW()); INSERT INTO `order_items` (order_id, product_id, quantity, total_price, created_at, updated_at) VALUES (3, 1, 1, 25000, NOW(), NOW()), (3, 3, 1, 15000, NOW(), NOW()), (3, 2, 1, 10000, NOW(), NOW());</pre>	
Grid	id	order_id	product_id																	
1	25	1	1																	
2	26	1	2																	
3	27	2	3																	
7	SELECT	orders(*) 1 SELECT o.id AS order_id, o.transaction_time, o.total_price AS ord <table><tr><th>Grid</th><th>order_id</th><th>transaction_time</th><th>order_total_price</th></tr><tr><td>1</td><td>1</td><td>2024-06-24 10:00:00</td><td>40,000</td></tr><tr><td>2</td><td>1</td><td>2024-06-24 10:00:00</td><td>40,000</td></tr><tr><td>3</td><td>2</td><td>2024-06-24 11:00:00</td><td>20,000</td></tr></table>	Grid	order_id	transaction_time	order_total_price	1	1	2024-06-24 10:00:00	40,000	2	1	2024-06-24 10:00:00	40,000	3	2	2024-06-24 11:00:00	20,000	<pre>SELECT o.id AS order_id, o.transaction_time, o.total_price AS order_total_price, o.total_item AS order_total_item, u.name AS kasir_name, o.payment_method, p.name AS product_name, p.description AS product_description, p.price AS product_price, oi.quantity, oi.total_price AS item_total_price FROM order_items oi LEFT JOIN orders o ON oi.order_id = o.id LEFT JOIN users u ON o.kasir_id = u.id LEFT JOIN products p ON oi.product_id = p.id;</pre>	Menampilkan isi tabel order_details dan relasi ke tabel orders, users dan products
Grid	order_id	transaction_time	order_total_price																	
1	1	2024-06-24 10:00:00	40,000																	
2	1	2024-06-24 10:00:00	40,000																	
3	2	2024-06-24 11:00:00	20,000																	

8	UPDATE		<pre>UPDATE order_items oi JOIN products p ON oi.product_id = p.id SET oi.quantity = 5, oi.total_price = 5 * p.price, oi.updated_at = NOW() WHERE oi.order_id = 3 AND oi.product_id = 3;</pre>	Merubah quantity=5 dan total_price pada tabel order_items yang berelasi ke tabel products
9	DELETE		<pre>DELETE FROM order_items WHERE order_id = 3; DELETE FROM orders WHERE id = 3;</pre>	Menghapus order_id=3 pada tabel orders dan order_items
10	CREATE VIEW		<pre>CREATE VIEW order_details_view AS SELECT a.id AS order_id, a.transaction_time, a.total_price AS order_total_price, a.total_item AS order_total_item, b.name AS kasir_name, a.payment_method, d.name AS product_name, d.description AS product_description, d.price AS product_price, c.quantity, c.total_price AS item_total_price FROM orders a LEFT JOIN users b ON a.kasir_id = b.id LEFT JOIN order_items c ON a.id = c.order_id LEFT JOIN products d ON c.product_id = d.id;</pre>	Membuat view yang isinya menampilkan data detail order
11	CREATE VIEW		<pre>CREATE VIEW product_sales_view AS SELECT p.id AS product_id, p.name AS product_name, SUM(oi.quantity) AS total_quantity_sold, SUM(oi.total_price) AS total_revenue FROM products p LEFT JOIN order_items oi ON p.id = oi.product_id GROUP BY p.id, p.name;</pre>	Membuat view yang isinya menampilkan data sales berdasarkan product

12	CREATE VIEW		<pre>CREATE VIEW daily_sales_summary_view AS SELECT DATE(a.transaction_time) AS transaction_date, COUNT(a.id) AS total_orders, SUM(a.total_price) AS total_sales_amount, SUM(a.total_item) AS total_items_sold FROM orders a GROUP BY DATE(a.transaction_time);</pre>	
13	CREATE VIEW		<pre>CREATE VIEW user_orders_view AS SELECT u.id AS user_id, u.name AS user_name, COUNT(o.id) AS total_orders FROM users u LEFT JOIN orders o ON u.id = o.kasir_id GROUP BY u.id, u.name;</pre>	
14	CREATE VIEW		<pre>CREATE VIEW best_seller_products_view AS SELECT p.id AS product_id, p.name AS product_name, SUM(oi.quantity) AS total_quantity_sold FROM products p LEFT JOIN order_items oi ON p.id = oi.product_id GROUP BY p.id, p.name ORDER BY SUM(oi.quantity) DESC;</pre>	
15	CREATE PROCEDURE		<pre>CREATE PROCEDURE `cafe_db`.`spProductList` (IN search_name VARCHAR(255), IN search_category ENUM('food', 'drink', 'snack'), IN page INT, IN page_size INT) BEGIN DECLARE offset_val INT DEFAULT 0; SET offset_val = (page - 1) * page_size; SELECT * FROM products WHERE (search_name IS NULL OR name LIKE CONCAT('%', search_name, '%')) AND (search_category IS NULL OR search_category = ' OR category = search_category) ORDER BY id LIMIT page_size OFFSET offset_val; END;</pre>	

16	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spProductDetail` (IN product_id BIGINT UNSIGNED) BEGIN SELECT * FROM products WHERE id = product_id; END </pre>	
17	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spProductAdd` (IN p_name VARCHAR(255), IN p_description TEXT, IN p_price INT, IN p_stock INT, IN p_category ENUM('food', 'drink', 'snack'), IN p_image VARCHAR(255)) BEGIN DECLARE result_code INT; DECLARE error_message VARCHAR(1000); -- Check if name or category is empty IF p_name = '' OR p_name IS NULL OR p_category = '' OR p_category IS NULL THEN SET result_code = 39999; SET error_message = 'Semua kolom (nama, kategori) harus diisi.'; SELECT <u>result_code</u>, <u>error_message</u>; ELSE -- Check if product name already exists IF EXISTS (SELECT 1 FROM products WHERE name = p_name LIMIT 1) THEN SET result_code = 39998; SET error_message = 'Nama produk sudah ada dalam database.'; SELECT <u>result_code</u>, <u>error_message</u>; ELSE -- Insert new product INSERT INTO products (name, description, price, stock, category, image, created_at, updated_at) VALUES (p_name, p_description, p_price, p_stock, p_category, p_image, NOW(), NOW()); SET result_code = 1; SET error_message = ''; SELECT <u>result_code</u>, <u>error_message</u>; END IF; END IF; END </pre>	

18	CREATE PROCEDURE	<pre> CREATE PROCEDURE `cafe_db`.`spProductEdit`(IN p_id BIGINT UNSIGNED, IN p_name VARCHAR(255), IN p_description TEXT, IN p_price INT, IN p_stock INT, IN p_category ENUM('food', 'drink', 'snack'), IN p_image VARCHAR(255)) begin DECLARE result_code INT; DECLARE error_message VARCHAR(1000); DECLARE product_count INT; -- Check if the product exists SELECT COUNT(*) INTO product_count FROM products WHERE id = p_id; IF product_count = 0 THEN SET result_code = 39999; SET error_message = 'Produk dengan ID yang diberikan tidak ditemukan.'; SELECT <u>result_code</u>, <u>error_message</u>; ELSE IF p_name = '' OR p_name IS NULL OR p_category = '' OR p_category IS NULL THEN SET result_code = 39999; SET error_message = 'Semua kolom (nama, kategori) harus diisi.'; SELECT <u>result_code</u>, <u>error_message</u>; ELSE UPDATE products SET name = p_name, description = p_description, price = p_price, stock = p_stock, category = p_category, image = p_image, updated_at = NOW() WHERE id = p_id; SET result_code = 1; SET error_message = ''; SELECT <u>result_code</u>, <u>error_message</u>; END IF; END IF; END; </pre>	
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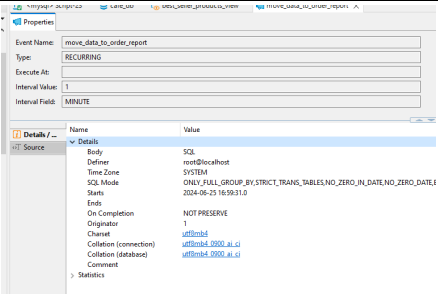
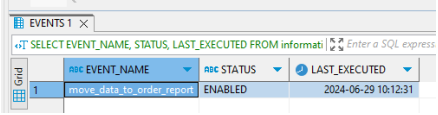
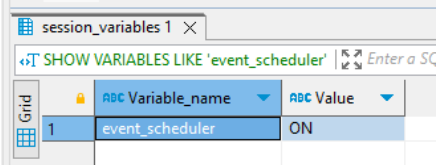
19	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spProductStockAdd`(IN p_product_id BIGINT UNSIGNED, IN p_add_stock INT) BEGIN DECLARE result_code INT; DECLARE error_message VARCHAR(1000); DECLARE current_stock INT; -- Check if the product exists IF NOT EXISTS (SELECT 1 FROM products WHERE id = p_product_id) THEN SET result_code = 0; SET error_message = 'Product ID does not exist'; ELSE -- Get the current stock SELECT stock INTO current_stock FROM products WHERE id = p_product_id; -- Add the new stock UPDATE products SET stock = current_stock + p_add_stock, updated_at = NOW() WHERE id = p_product_id; SET result_code = 1; SET error_message = ''; END IF; SELECT <u>result_code</u>, <u>error_message</u>; END </pre>	
20	RUN PROCEDURE		<pre> CALL spProductList('', null, 1, 10); CALL spProductList('', 'food', 1, 10); CALL spProductDetail(1); CALL spProductAdd(null, 'Deskripsi Produk', 10000, 50, 'food', 'gambar.jpg'); CALL spProductAdd('', 'Deskripsi Produk', 10000, 50, 'food', 'gambar.jpg'); CALL spProductAdd('Nama Produk2', 'Deskripsi Produk', 10000, 50, 'food', 'gambar.jpg'); CALL spProductEdit(12, '', 'Nama Produk', 12000, 60, 'drink', 'gambar_baru.jpg'); CALL spProductEdit(11, null, 'Deskripsi Produk Baru', 12000, 60, 'drink', 'gambar_baru.jpg'); CALL spProductEdit(11, '', 'Deskripsi Produk Baru', 12000, 60, 'drink', 'gambar_baru.jpg'); CALL spProductEdit(14, 'Nama Produk', 'Nama Produk', 12000, 60, 'drink', 'gambar_baru.jpg'); CALL spProductDelete(1); CALL spProductDelete(13);CALL spProductStockAdd(1, 10); CALL spProductStockAdd(1, 10); </pre>	

21	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spOrderAdd` (IN p_transaction_time TIMESTAMP, IN p_total_price INT, IN p_total_item INT, IN p_kasir_id BIGINT UNSIGNED, IN p_payment_method ENUM('Tunai', 'QRIS')) begin DECLARE result_code INT; DECLARE error_message VARCHAR(1000); INSERT INTO orders (transaction_time, total_price, total_item, kasir_id, payment_method, created_at, updated_at) VALUES (p_transaction_time, p_total_price, p_total_item, p_kasir_id, p_payment_method, NOW(), NOW()); SET result_code = 1; SET error_message = ''; SELECT <u>result_code</u>, <u>error_message</u>; END </pre>	
22	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spOrderItemAdd` (IN p_order_id BIGINT UNSIGNED, IN p_product_id BIGINT UNSIGNED, IN p_quantity INT, IN p_total_price INT) BEGIN DECLARE result_code INT; DECLARE error_message VARCHAR(1000); DECLARE product_stock INT; -- Check if the order exists IF NOT EXISTS (SELECT 1 FROM orders WHERE id = p_order_id) THEN SET result_code = 0; SET error_message = 'Order ID does not exist'; -- Check if the product exists ELSEIF NOT EXISTS (SELECT 1 FROM products WHERE id = p_product_id) THEN SET result_code = 0; SET error_message = 'Product ID does not exist'; -- Check if the stock is sufficient ELSE SELECT stock INTO product_stock FROM products WHERE id = p_product_id; IF product_stock < p_quantity THEN SET result_code = 0; SET error_message = 'Insufficient stock'; ELSE </pre>	

			<pre> -- Insert the order item INSERT INTO order_items (order_id, product_id, quantity, total_price, created_at, updated_at) VALUES (p_order_id, p_product_id, p_quantity, p_total_price, NOW(), NOW()); -- Update the product stock UPDATE products SET stock = stock - p_quantity WHERE id = p_product_id; SET result_code = 1; SET error_message = ''; END IF; END IF; SELECT <u>result_code</u>, <u>error_message</u>; END </pre>	
23			<pre> CALL spOrderAdd('2024-06-24 14:00:00', 50000, 3, 1, 'Tunai'); CALL spOrderItemAdd(9,1, 1, 10000); CALL spProductStockAdd(1, 10); </pre>	
24	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spRegister` (IN p_name VARCHAR(255), IN p_email VARCHAR(50), IN p_phone VARCHAR(25), IN p_roles ENUM('admin','staff','user'), IN p_password VARCHAR(255)) BEGIN DECLARE result_code INT; DECLARE error_message VARCHAR(1000); -- Check if the email already exists IF EXISTS (SELECT 1 FROM users WHERE email = p_email) THEN SET result_code = 0; SET error_message = 'Email already exists'; ELSE -- Insert the new user with hashed password INSERT INTO users (name, email, phone, roles, password, created_at, updated_at) VALUES (p_name, p_email, p_phone, p_roles, SHA2(p_password, 256), NOW(), NOW()); SET result_code = 1; SET error_message = ''; END IF; SELECT <u>result_code</u>, <u>error_message</u>; END </pre>	

25	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spLogin`(IN p_email VARCHAR(50), IN p_password VARCHAR(255)) BEGIN DECLARE result_code INT; DECLARE error_message VARCHAR(1000); DECLARE user_id BIGINT UNSIGNED; DECLARE user_name VARCHAR(255); DECLARE user_roles ENUM('admin','staff','user'); -- Check if the email and hashed password match IF EXISTS (SELECT 1 FROM users WHERE email = p_email AND password = SHA2(p_password, 256)) THEN -- Get user details SELECT id, name, roles INTO user_id, user_name, user_roles FROM users WHERE email = p_email AND password = SHA2(p_password, 256); SET result_code = 1; SET error_message = ''; SELECT result_code, error_message; SELECT user_id, user_name, user_roles; ELSE SET result_code = 0; SET error_message = 'Invalid email or password'; SELECT result_code, error_message; END IF; END </pre>	
26	RUN PROCEDURE		<pre> select * from users; CALL spRegister('John Doe', 'johndoe@example.com', '123456789', 'user', 'budi123'); CALL spLogin('johndoe@example.com', 'budi123'); </pre>	
27	CREATE TRIGGER		<pre> CREATE TRIGGER trg_after_insert_order_items AFTER INSERT ON order_items FOR EACH ROW BEGIN CALL spOrderTotalUpdate(NEW.order_id); END </pre>	

28	CREATE TRIGGER		<pre> CREATE TRIGGER trg_after_update_order_items AFTER UPDATE ON order_items FOR EACH ROW BEGIN CALL spOrderTotalUpdate(NEW.order_id); END </pre>	
29	CREATE TRIGGER		<pre> CREATE TRIGGER trg_after_delete_order_items AFTER DELETE ON order_items FOR EACH ROW BEGIN CALL spOrderTotalUpdate(OLD.order_id); END </pre>	
30	CREATE TABLE		<pre> CREATE TABLE order_report (order_id BIGINT UNSIGNED NOT NULL, transaction_time TIMESTAMP NOT NULL, order_total_price INT NOT NULL, order_total_item INT NOT NULL, kasir_name VARCHAR(255) NOT NULL, payment_method ENUM('Tunai', 'QRIS') NOT NULL, product_name VARCHAR(255) NOT NULL, product_description TEXT, product_price INT NOT NULL, quantity INT NOT NULL, item_total_price INT NOT NULL, INDEX idx_transaction_time (transaction_time), INDEX idx_kasir_name (kasir_name), INDEX idx_payment_method (payment_method), INDEX idx_product_name (product_name)); </pre>	
31	CREATE PROCEDURE		<pre> CREATE PROCEDURE `cafe_db`.`spOrderReportAdd`() BEGIN -- Insert data into order_report if it doesn't already exist INSERT INTO order_report (order_id, transaction_time, order_total_price, order_total_item, kasir_name, payment_method, product_name, product_description, product_price, quantity, item_total_price) </pre>	

			<pre>SELECT v.order_id, v.transaction_time, v.order_total_price, v.order_total_item, v.kasir_name, v.payment_method, v.product_name, v.product_description, v.product_price, v.quantity, v.item_total_price FROM cafe_db.order_details_view v WHERE NOT EXISTS (SELECT 1 FROM order_report r WHERE r.order_id = v.order_id AND r.product_name = v.product_name AND r.quantity = v.quantity); END</pre>	
32	CREATE EVENT		<pre>CREATE EVENT IF NOT EXISTS move_data_to_order_report ON SCHEDULE EVERY 1 MINUTE STARTS CURRENT_TIMESTAMP ON COMPLETION NOT PRESERVE ENABLE DO CALL spOrderReportAdd();</pre>	
33	SELECT		<pre>SELECT EVENT_NAME, STATUS, LAST_EXECUTED FROM information_schema.EVENTS WHERE EVENT_SCHEMA = 'cafe_db' AND EVENT_NAME = 'move_data_to_order_report';</pre>	
34	SET GLOBAL		<pre>SET GLOBAL event_scheduler = ON; SHOW VARIABLES LIKE 'event_scheduler'; SELECT NOW();</pre>	

