

CIS 321 PROJECT MILESTONE (2): Mapped Tables Filled With data and SQL Query Statements

CIS 321 Database Concepts and Design

Year (2025) – Second Semester

Instructor: Fadwa Issa Al-Saleem





Project Group Number (In Blackboard): Group 4

Section Number: 6F03

Project Title: Online Shopping System

Date of Submission: Friday, 28 February

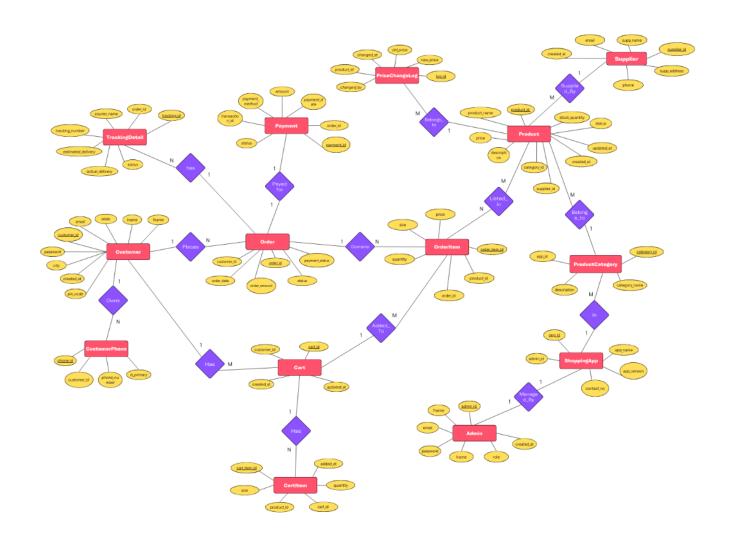
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ER Diagram

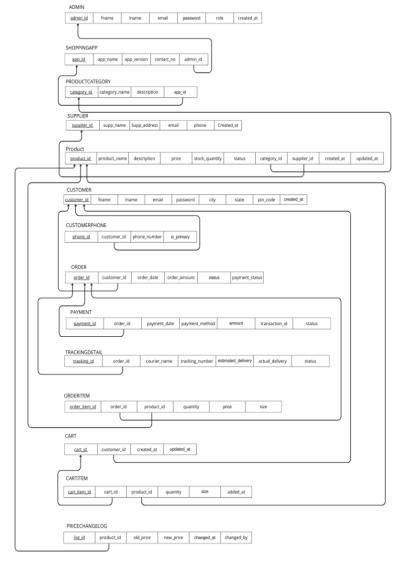


Canva link for ER Diagram

https://www.canva.com/design/DAGm2RaegK4/k7FM8fxDLMwkDDo VluezDQ/edit?utm_content=DAGm2RaegK4&utm_campaign=designsh are&utm_medium=link2&utm_source=sharebutton



MAPPING of your ER diagram into Database Schema:



Canva link for map

https://www.canva.com/design/DAGml61tlkY/IHVqkmbTWDOMspCh 2L9A9Q/edit?utm_content=DAGml61tlkY&utm_campaign=designshar e&utm_medium=link2&utm_source=sharebutton



Tables with full specification of data types for all fields, constraints, and Keys

1. Admin Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

fname: VARCHAR(50), NOT NULL

lname: VARCHAR(50), NOT NULL

email: VARCHAR(100), NOT NULL, UNIQUE KEY

password: VARCHAR(255), NOT NULL

role: VARCHAR(50), NOT NULL

created _at:Timestamp, can be null, Default current_timestamp

2. Customer Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

fname: VARCHAR(50), NOT NULL

lname: VARCHAR(50), NOT NULL

email: VARCHAR(100), NOT NULL, UNIQUE KEY

password: VARCHAR(255), NOT NULL

city: VARCHAR(50), NOT NULL

State: VARCHAR(50), NOT NULL

pin_code: VARCHAR(20), NOT NULL

created_at: timestamp, can be null, default current_timestamp



3. Product category Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

name: VARCHAR(100), NOT NULL

description: text

app_id: int(11), NOT NULL, Foreign key References shoppingapp(id)

4. Shopping app Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

name: VARCHAR(100), NOT NULL

version: VARCHAR(20), NOT NULL

contact no: VARCHAR(20), NOT NULL

admin_id: int(11), NOT NULL, Foreign key References admin(id)

5. Supplier Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

name: VARCHAR(100), NOT NULL

address: text, NOT NULL

email: VARCHAR(100), NOT NULL, UNIQUE KEY

phone: VARCHAR(20), NOT NULL

created_at: timestamp, can be null, default current_timestamp



6. Cart Table

cart_id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

customer_id: INT(11), NOT NULL created_at: DATETIME, NOT NULL updated_at: DATETIME, NOT NULL

7. Cart item Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

cart_id: int(11), NOT NULL, Foreign key References cart(id)

product_id: int(11), NOT NULL, Foreign key References product(id)

quantity: int(11), NOT NULL default 1

size: VARCHAR(20), default null

added_at: timestamp, can be null, default current_timestamp

8. Order item Table

id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

order_id: int(11), NOT NULL, Foreign key References order(id)

product_id: int(11), NOT NULL, Foreign key References product(id)

quantity: int(11), NOT NULL

price: decimal(10,2), NOT NULL

size: VARCHAR(20), default null

9.Payment Table

payment_id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

order_id: INT(11), NOT NULL

payment date: DATETIME, NOT NULL

payment_method: VARCHAR(50), NOT NULL

amount: DECIMAL(10,2), NOT NULL

transaction id: VARCHAR(100), NOT NULL

status: VARCHAR(20), NOT NULL



10.Product Table

product_id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

product_name: VARCHAR(255), NOT NULL

description: TEXT, NULL

price: DECIMAL(10,2), NOT NULL stock_quantity: INT(11), NOT NULL status: VARCHAR(50), NOT NULL category_id: INT(11), NOT NULL supplier_id: INT(11), NOT NULL created_at: DATETIME, NOT NULL updated_at: DATETIME, NOT NULL

11.Price Change Log Table

log_id: INT(11), NOT NULL, AUTO_INCREMENT, PRIMARY KEY

product_id: INT(11), NOT NULL

old_price: DECIMAL(10,2), NOT NULL new_price: DECIMAL(10,2), NOT NULL changed_at: DATETIME, NOT NULL changed_by: VARCHAR(50), NOT NULL

12.Customer Phone Table

phone id: INT(11), NOT NULL, AUTO INCREMENT, PRIMARY KEY

customer_id: INT(11), NOT NULL

phone number: VARCHAR(20), NOT NULL

is_primary: TINYINT(1), NOT NULL

13. Tracking Detail Table

tracking id: INT(11), NOT NULL, AUTO INCREMENT, PRIMARY KEY

order id: INT(11), NOT NULL

courier_name: VARCHAR(100), NOT NULL tracking_number: VARCHAR(100), NOT NULL

estimated delivery: DATE, NOT NULL

actual_delivery: DATE, NULL status: VARCHAR(50), NOT NULL

14.Order Table

order id: INT(11), NOT NULL, AUTO INCREMENT, PRIMARY KEY

customer_id: INT(11), NOT NULL order_date: DATETIME, NOT NULL

order_amount: DECIMAL(10,2), NOT NULL

status: VARCHAR(50), NOT NULL

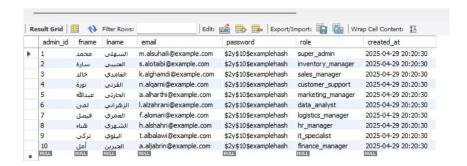
payment_status: VARCHAR(50), NOT NULL



Fill Tables with 10 records:

1. Admin table

1 • SELECT * FROM project.admin;

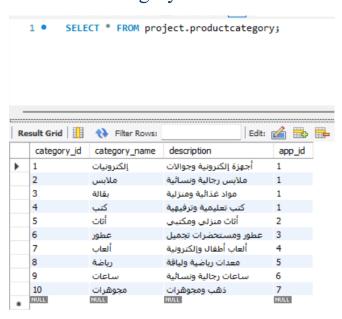


2. Shopping application table

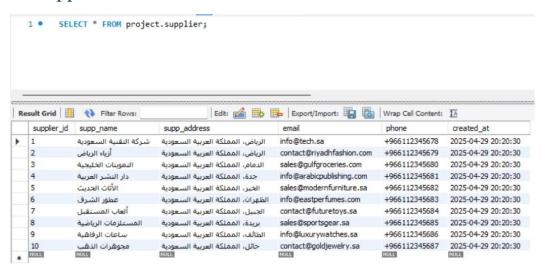
SELECT * FROM project.shoppingapp; Result Grid ♦ Filter Rows: Edit: admin_id app_name app_version contact_no 1 متجر السعودية 1.0.0 +966500123456 1.2.1 +966501234567 سوق نجد 3 2.0.3 +966502345678 3 حجاز مارت شرقاوي شوب 1.5.0 +966503456789 4 5 1.1.4 +966504567890 5 جنوبية 6 3.0.1 +966505678901 6 7 قحطان مول 2.2.0 +966506789012 8 1.0.5 +966507890123 8 طيبة ماركت الرباض ستور 1.3.2 +966508901234 9 +966509012345 10 الدمام شوب 2.1.0 10 NULL NULL NULL NULL



3. Product category table

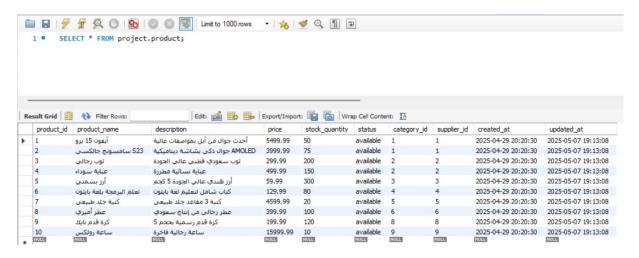


4. Supplier table

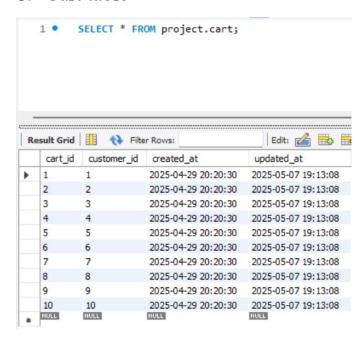




5. Product table

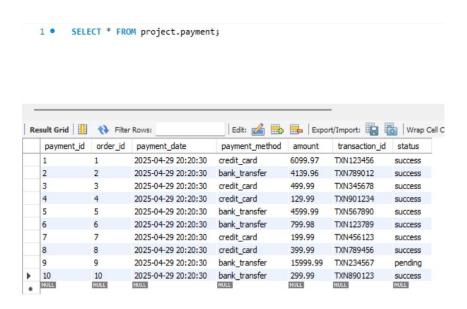


6. Cart table

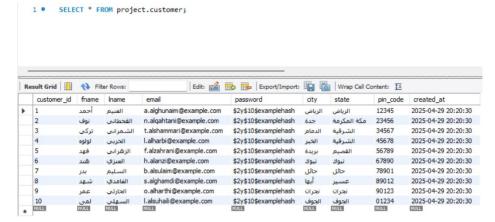




7. Payment table

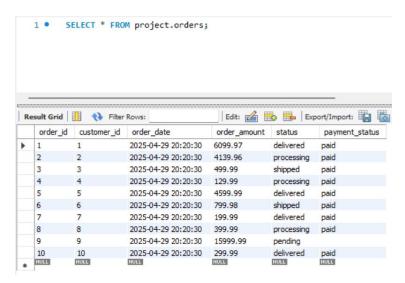


8. Customer table

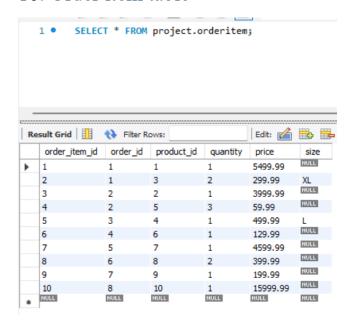




9. Order table

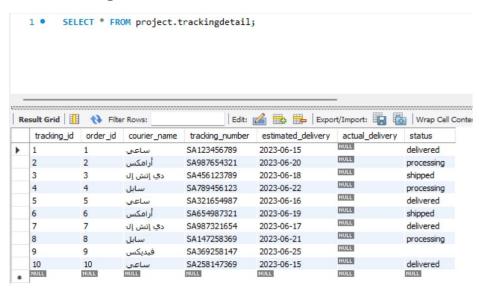


10. Order item table



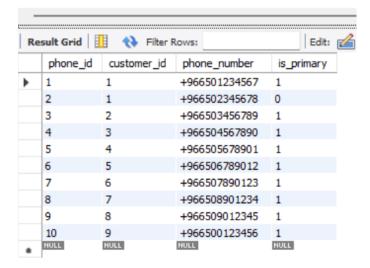


11. Tracking detail table



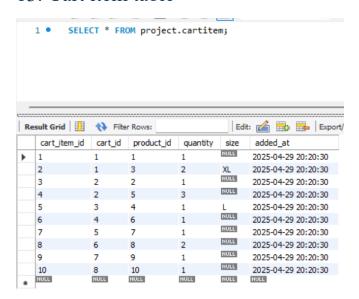
12. Customer phone table

1 • SELECT * FROM project.customerphone;

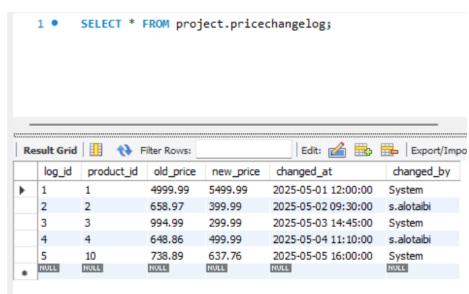




13. Cart item table



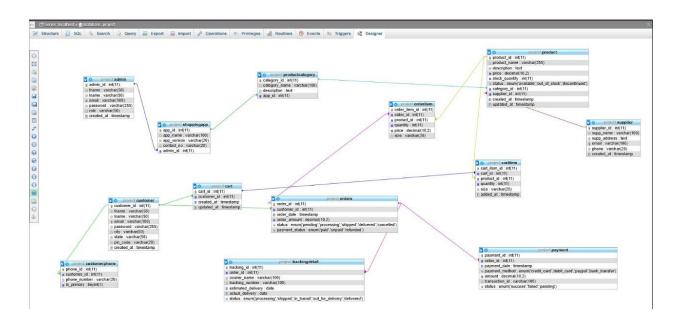
14. Price change log table



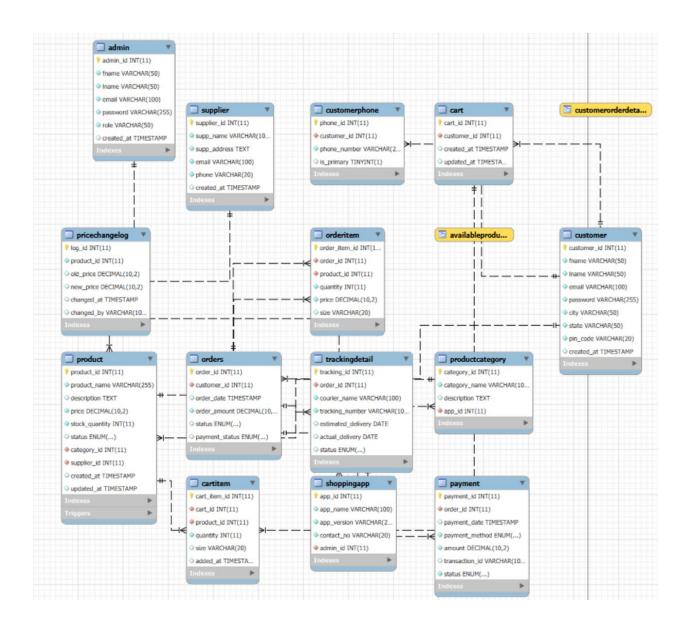


SQL Query Statements

Database Diagram From (PhpMyAdmin):



Database Diagram From (MySQL):

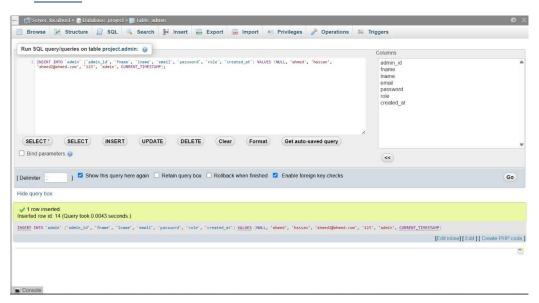




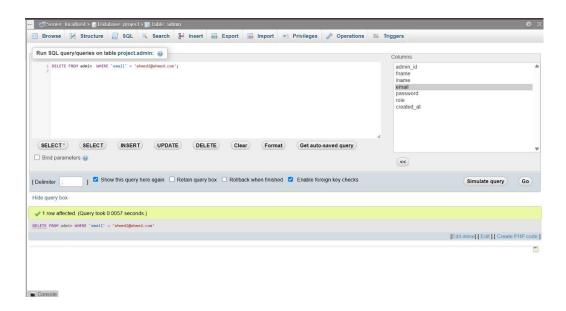


Write all SQL Queries required in your system to achieve all requirements (screenshot the result for each query).

1. Insert:

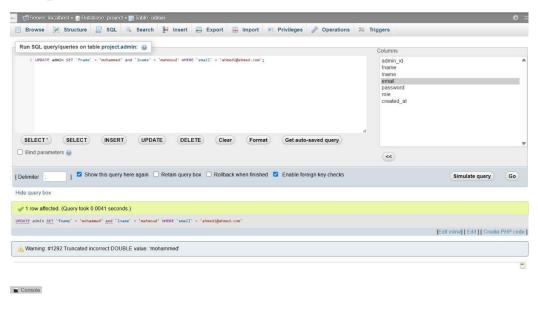


2. Delete:

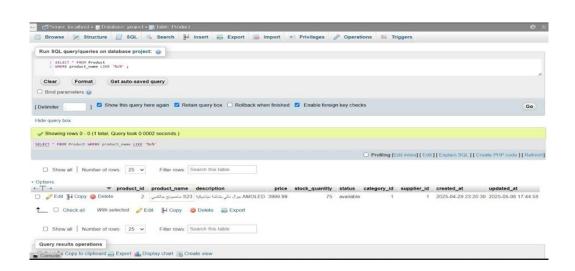




3. Update:

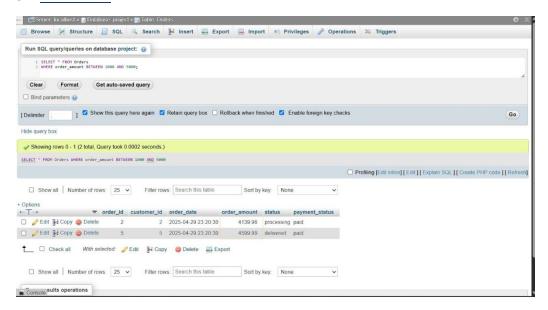


4. Like:

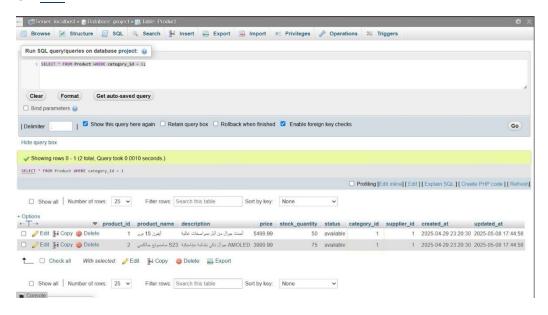




5. Between:

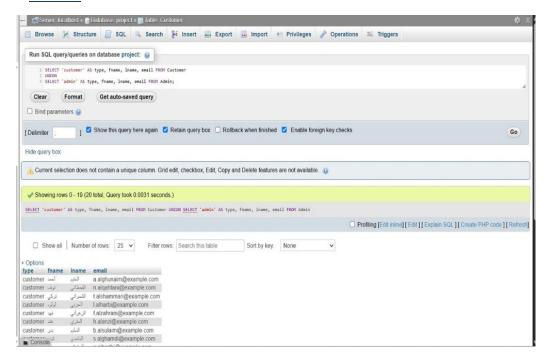


6. IN:

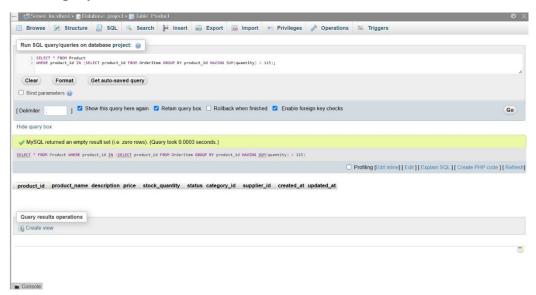




7. Union:

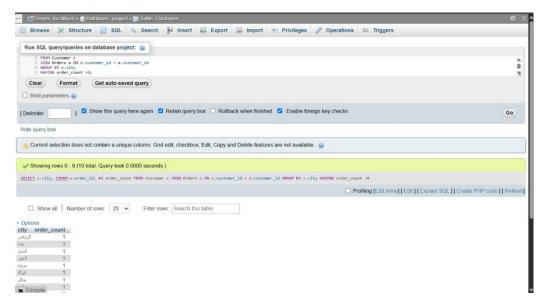


8. Group by:

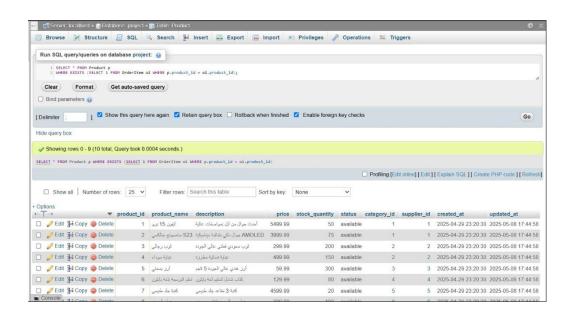




9. Having:

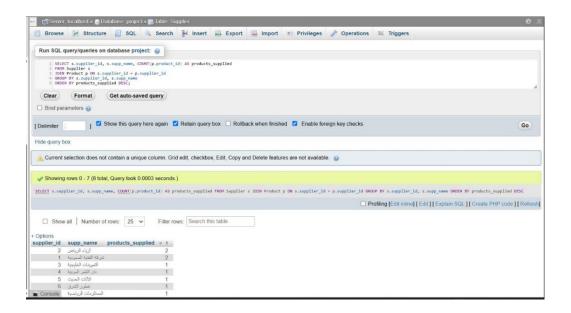


10.Exists:

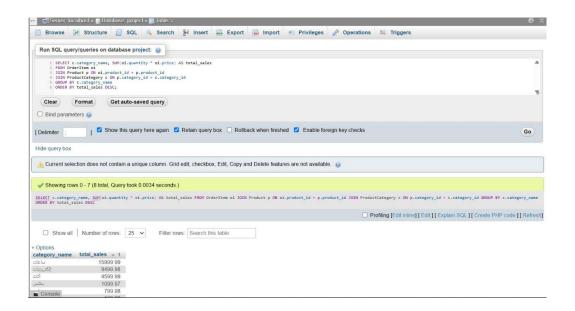




11. Aggregation:

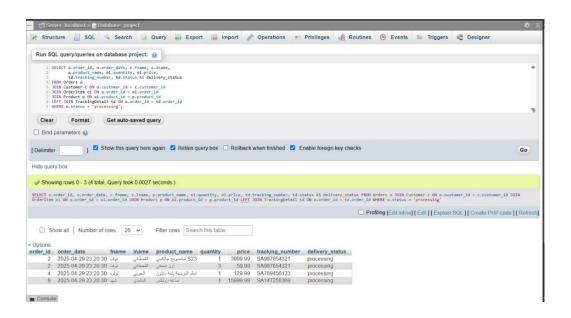


12. Natural Join:

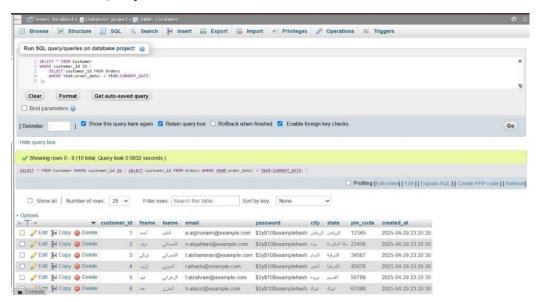




13. Outer Join:

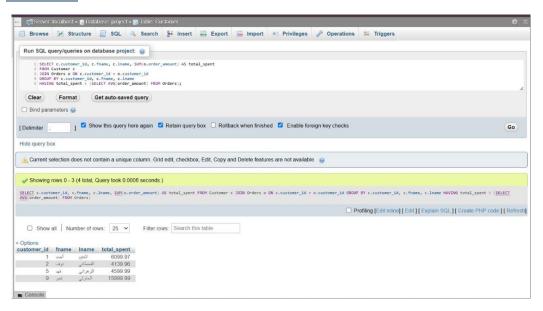


14. Nested Query:

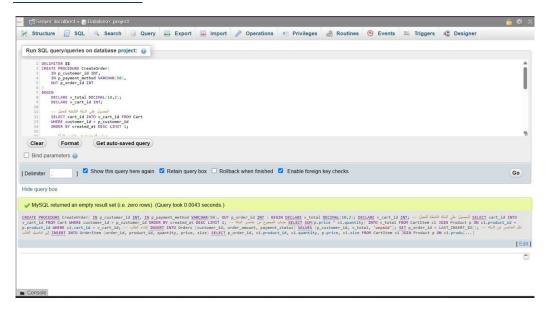




15. Function:



16.Stored Procedure

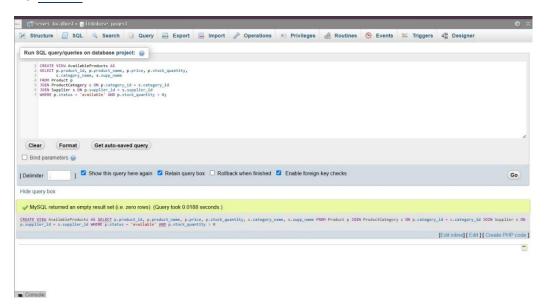




17. Trigger:

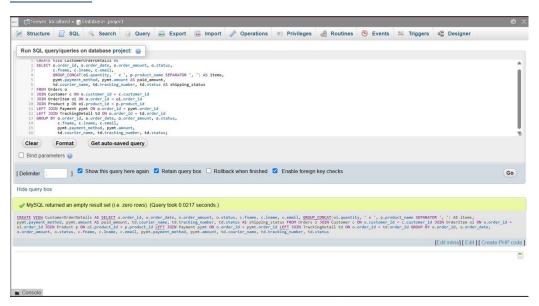


18. View:

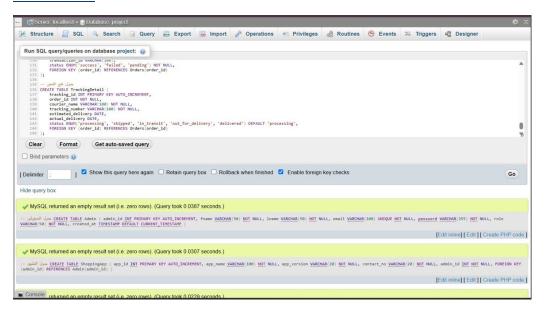




19. View 2:

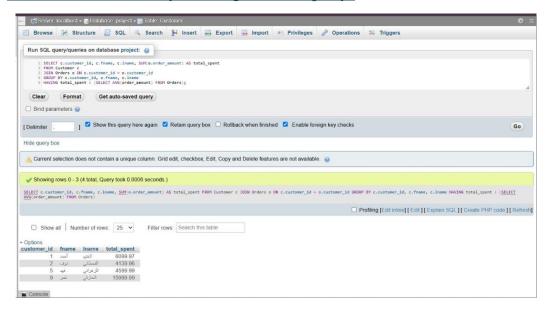


20.TABLE

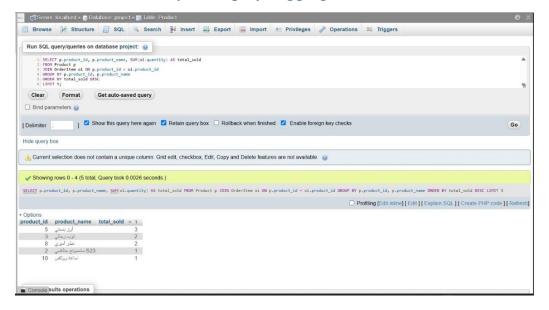




21: Function, Order by, Having, Nested query:

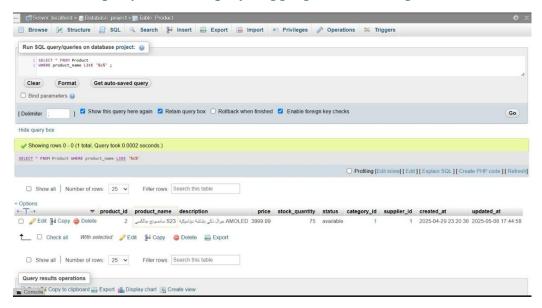


22: Function, Order by, Group by, Aggregation:

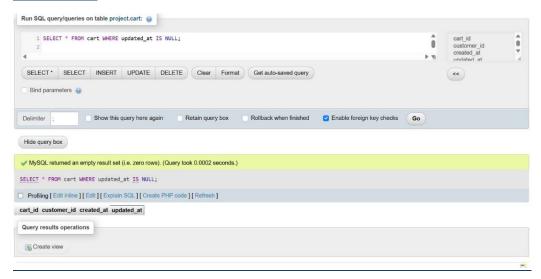




23. Nested query, IN, Group by, Aggregation, Having:



24. Is Null:





25. Not:



26. Distinct

