Alexandria University
Faculty of Engineering
Specialized Scientific Programs
Fall 2023

Computer and Communications
Program 7th term
CSE376, Database Systems
Lab 8

Lab 8

SQL (Structured Query Language)

Objectives:

- Ability to write SQL queries.
- Using JOIN clause to combine rows from two or more tables.
- Using SQL aggregate functions to return a single value, calculated from values in a column.

Database:

The following relations show basic entities of Order processing System. (It's the same schema used in the previous lab)

customer (customer_id, customer_name, city)
order (order_id, order_date, customer_id)
order_item(order_id , item_id, quantity)
item (item_id, unit_price)
shipment (order_id, warehouse_id, ship_date)
warehouse (warehouse_id, warehouse_city)

SQL Queries:-

1. Write an **SQL** query to retrieve warehouse id, city, and count of orders shipped from this warehouse. The query should show all warehouses even if there are no orders that have been shipped from this warehouse.

2. Write a **SQL** query to retrieve customer name, count of orders for each customer even if the customer didn't make any orders.

3. Write a **SQL** query to retrieve all items who haven't been ordered.

Deliverable :

You should deliver the following **all files must be added in the same folder**:

- DML SQL queries you wrote to retrieve data. In file called **DML.sql**
- SQL query you used to answer the questions above and the output/error if any in file called **Answers.txt**