**Day 2 Assignment**

**Alter Table:**

--Add a new column linkedin\_profile to employees table to store LinkedIn URLs as varchar.

Alter Table employees

Add column linkedin\_profile varchar(50);

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--Change the linkedin\_profile column data type from VARCHAR to TEXT.

Alter Table employees

Alter column linkedin\_profile Type text;

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--Add unique, not null constraint to linkedin\_profile

Add unique

Alter Table employees

Add Constraint unique\_linkedin\_profile Unique (linkedin\_profile);

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not null

Alter Table employees

Alter Column linkedin\_profile Set Not Null

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Note: If there are duplicates, you can't apply both Not Null and Unique at the same time. Handle duplicates first, then apply one of the constraints.

--Drop column linkedin\_profile

Alter Table employees

Drop Column linkedin\_profile;

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**Querying (Select)**

--Retrieve the employee name and title of all employees

Select employeename,title

From public.employees

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--Find all unique unit prices of products

Select productname, unitprice

From public.products

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--List all customers sorted by company name in ascending order

Select \* From public.customers

Order By companyname Asc;

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--Display product name and unit price, but rename the unit\_price column as price\_in\_usd

Select productname, unitprice As price\_in\_usd

From public.products;

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--Get all customers from Germany.

Select \* From public.customers

Where country ='Germany';

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--Find all customers from France or Spain

Select \* From public.customers

Where country ='France' Or

country ='Spain';

OR

Select \* From public.customers

Where country In('France','Spain');

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--Retrieve all orders placed in 2014(based on order\_date), and either have freight greater than 50 or the shipped date available (i.e., non-NULL) (Hint: EXTRACT(YEAR FROM order\_date))

Select \* From public.orders

Where Extract(Year From orderdate)=2014

And freight>50

Or shippeddate Is Null;

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--4)Filtering

--Retrieve the product\_id, product\_name, and unit\_price of products where the unit\_price is greater than 15.

Select productid, productname, unitprice

From public.products

Where unitprice > 15;

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--List all employees who are located in the USA and have the title "Sales Representative".

Select \* From public.employees

Where country= 'USA'And title='Sales Representative';A screenshot of a computer

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--Retrieve all products that are not discontinued and priced greater than 30.

Select \* From public.products

Where discontinued<1 And unitprice >30;

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**--5)LIMIT/FETCH**

--Retrieve the first 10 orders from the orders table.

Select \* From public.orders

Limit 10;

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--Retrieve orders starting from the 11th order, fetching 10 rows (i.e., fetch rows 11-20).

Select \* From public.orders

Offset 11

Limit 10;

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--List all customers who are either Sales Representative, Owner

Select \* From public.customers

Where contacttitle In ('Sales Representative','Owner');

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--Retrieve orders placed between January 1, 2013, and December 31, 2013.

Select \* From public.orders

Where orderdate Between '2013-01-01' And '2013-12-31';

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**--7)Filtering**

--List all products whose category\_id is not 1, 2, or 3.

Select \* From public.products

Where categoryid Not In (1, 2, 3); A screenshot of a computer

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--Find customers whose company name starts with "A".

Select \* From public.customers

Where companyname Like 'A%';

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**--8)INSERT into orders table:**

--Task: Add a new order to the orders table with the following details:

--Order ID: 11078

--Customer ID: ALFKI

--Employee ID: 5

--Order Date: 2025-04-23

--Required Date: 2025-04-30

--Shipped Date: 2025-04-25

--shipperID:2

--Freight: 45.50

Insert Into public.orders ( orderid, customerid, employeeid, orderdate, requireddate, shippeddate, shipperid, freight)

Values ( 11078, 'ALFKI', 5, '2025-04-23', '2025-04-30', '2025-04-25', 2, 45.50);

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--9)Increase(Update)the unit price of all products in category\_id =2 by 10%.

--HINT: unit\_price =unit\_price \* 1.10)

Update public.products

Set unitprice = unitprice \* 1.10

Where categoryid = 2;

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