YAMUNA Day2 ASSIGNMENTS

1) Alter Table:

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

ALTER TABLE if exists 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 SET DATA TYPE text

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● Add unique, not null constraint to linkedin\_profile

Alter table employees Add Constraint distinct\_name UNIQUE (linkedin\_profile);

Alter table employees Alter column linkedin\_profile Set Not Null;

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● Drop column linkedin\_profile

ALTER TABLE employees DROP COLUMN linkedin\_profile

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2)      Querying (Select)

* Retrieve the employee name and title of all employees

select split\_part("employeeName", ' ', 1) as first\_name,

split\_part("employeeName", ' ', 2) as last\_name, title from employees;

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* Find all unique unit prices of products

select distinct "unitPrice" from products order by 1;

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* List all customers sorted by company name in ascending order

SELECT "customerID","customerName" FROM customers ORDER BY 2



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

select "productName", "unitPrice" as price\_in\_usd from products;

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3) Filtering

● Get all customers from Germany.

Select "customerID" from customers where "country" = 'Germany';

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● Find all customers from France or Spain

select "customerID" from customers where "country" = 'France' or "country" ='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 orders where extract("Year" from "orderDate") = '2014’ and ("freight" > 50 or "shippedDate" is Not 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 products where "unitPrice" > 15 order by "unitPrice";

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

select \* from employees where "country" = 'USA' and "title" = 'Sales Representative';

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

select \* from products where "discontinued" = ‘0’ and "unitPrice" > 30;

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5) LIMIT/FETCH

● Retrieve the first 10 orders from the orders table.

select \* from 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 orders limit 10 offset 10;

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6) Filtering (IN, BETWEEN) ● List all customers who are either Sales Representative or Owner

select \* from customers where "contactTitle" = 'Sales Representative' or "contactTitle" ='Owner' order by "contactTitle";

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

select \* from orders where "orderDate" between '2013-01-1' and '2013-12-31';

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7) Filtering ● List all products whose category\_id is not 1, 2, or 3.

select \* from products where "categoryID" not in (1, 2, 3) order by "categoryID";

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

select \* from 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 orders values(11078,'ALFKI', 5, '2025-04-23', '2025-04-30','2025-04-25', 2, 45.50)

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select \* from orders order by 1 desc;

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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)

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select \* from products where "categoryID" =2;

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10) Sample Northwind database:

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