--Day 5

--1.GROUP BY with WHERE - Orders by Year and Quarter

--Display, order year, quarter, order count, avg freight cost only for those orders where freight cost > 100

Select Extract(Year From order\_date) As orderYear,

Extract(Quarter From order\_date) AS orderQuarter,

Count(order\_id) As totalOrder,

Avg(freight) As avgFreight

From public.orders

Where freight >100

Group By 1,2

Order By 1,2

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--2.GROUP BY with HAVING - High Volume Ship Regions

--Display, ship region, no of orders in each region, min and max freight cost

--Filter regions where no of orders >= 5

Select ship\_region,

Count(order\_id) As orders,

Min(freight)As minFreight\_Cost,

Max (freight)As maxFreight\_Cost

From public.orders

Group BY 1

Having Count(order\_id)>=5

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--3.Get all title designations across employees and customers ( Try UNION & UNION ALL)

**--By Union-returns only unique titles (no duplicates).**

Select title As designation

From public.employees

Union

Select contact\_title As designation

From public.customers;

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**--By Union All-returns all titles, including duplicates.**

Select title As designation

From public.employees

Union All

Select contact\_title As designation

From public.customers;

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--4.Find categories that have both discontinued and in-stock products

--(Display category\_id, instock means units\_in\_stock > 0, Intersect)

Select category\_id

From public.products

Where discontinued = 1

Intersect

Select category\_id

From public.products

Where units\_in\_stock > 0 ;

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--5.Find orders that have no discounted items (Display the order\_id, EXCEPT)

Select distinct order\_id

From public.order\_details

Except

Select order\_id

From public.order\_details

Where discount=0;

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