----DAY 4

--1.List all customers and the products they ordered with the order date. (Inner join)

--Tables used: customers, orders, order\_details, products

--Output should have below columns:

-- companyname AS customer,

-- orderid,

-- productname,

-- quantity,

-- orderdate

Select cust.company\_name As customer,

ord.order\_id,

pd.product\_name,

od.quantity,

ord.order\_date

From customers cust

Join orders ord

On cust.customer\_id = ord.customer\_id

Join order\_details od

On od.order\_id = od.order\_id

Join products pd

On od.product\_id = pd.product\_id;

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--2.Show each order with customer, employee, shipper, and product info — even if some parts are missing. (Left Join)

--Tables used: orders, customers, employees, shippers, order\_details, products

Select

ord.order\_id,

cust.company\_name As customer,

emp.first\_name || ' ' || emp.last\_name As employee,

ship.company\_name As shipper,

pd.product\_name,

od.quantity

From orders ord

Left Join customers cust

On ord.customer\_id = cust.customer\_id

Left Join employees emp

On ord.employee\_id = emp.employee\_id

Left Join shippers ship

On ord.ship\_via = ship.shipper\_id

Left Join order\_details od

On ord.order\_id = od.order\_id

Left Join products pd

On od.product\_id = pd.product\_id;

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--3.Show all order details and products (include all products even if they were never ordered). (Right Join)

--Tables used: order\_details, products

--Output should have below columns:

-- orderid,

-- productid,

-- quantity,

-- productname

Select

od.order\_id As orderid,

pd.product\_id AS productid,

od.quantity,

pd.product\_name As productname

From products pd

Right Join order\_details od

On pd.productid = od.product\_id;

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--4.List all product categories and their products — including categories that have no products, and products that are not assigned to any category.(Outer Join)

--Tables used: categories, products

Select

c.category\_id As categoryId,

c.category\_name As categoryName,

pd.product\_name As productName

From categories c

Full Outer Join products pd

On c.category\_id = pd.category\_id;

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--5.Show all possible product and category combinations (Cross join)..

Select

c.category\_id As categoryId,

c.category\_name As categoryName,

pd.product\_id As productId,

pd.product\_name As productName

From categories c

Cross Join products pd

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--6.Show all employees and their manager(Self join(left join))

Select

emp.employee\_id As employee,

emp.first\_name || ' ' || emp.last\_name As employeeName,

m.first\_name || ' ' || m.last\_name AS managerName

From employees emp

Left Join employees m

On emp.reports\_to = m.employee\_id

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--7.List all customers who have not selected a shipping method.

--Tables used: customers, orders

--(Left Join, WHERE o.shipvia IS NULL)

Select

cust.company\_name

From customers cust

Left Join orders ord

On cust.customer\_id = ord.customer\_id

Where ord.ship\_via Is null;

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