Questions :

(Mostly Intermediate and Advanced)

Calculate the percentage contribution of each pizza type to total revenue.

-----percentage contribution with respect to pizza category

with cte as

(select

round(sum(od.quantity \* pz.price), 2 ) as total\_revenue

from order\_details as od

join pizza as pz

on od.pizza\_id = pz.pizza\_id),

rev as

(select

pizza\_types.category,

sum(order\_details.quantity \* pizza.price) as revenue

from order\_details join pizza

on order\_details.pizza\_id = pizza.pizza\_id

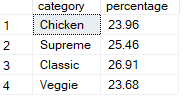
join pizza\_types on pizza\_types.pizza\_type\_id = pizza.pizza\_type\_id

group by pizza\_types.category)

select rev.category,

round((rev.revenue / cte.total\_revenue \*100.0 ),2) as percentage

from rev, cte



Determine the top 3 most ordered pizza types\*\* based on revenue for each pizza category

select name, revenue from

(select category, name, revenue,

rank() over (partition by category order by revenue desc) as rn

from

(select pizza\_types.category, pizza\_types.name,

sum((order\_details.quantity) \* pizza.price) as revenue from pizza\_types

join pizza

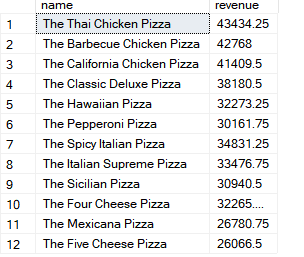
on pizza\_types.pizza\_type\_id = pizza.pizza\_type\_id

join order\_details

on order\_details.pizza\_id = pizza.pizza\_id

group by pizza\_types.category, pizza\_types.name) as a) as b

where rn <= 3



Analyze the cumulative revenue generated over time

select date,

sum(revenue) over (order by date) as cum\_revenue

from

(select orders.date,

sum(order\_details.quantity \* pizza.price) as revenue

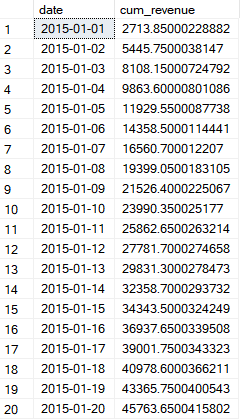
from order\_details join pizza

on order\_details.pizza\_id = pizza.pizza\_id

join orders

on orders.order\_id = order\_details.order\_id

group by orders.date ) as sales



Determine the top 3 most ordered pizza category based on revenue

select top 3

pizza\_types.category,

round(sum(order\_details.quantity \* pizza.price),2) as revenue

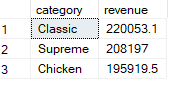
from order\_details join pizza

on order\_details.pizza\_id = pizza.pizza\_id

join pizza\_types on pizza\_types.pizza\_type\_id = pizza.pizza\_type\_id

group by pizza\_types.category

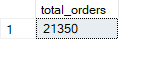
order by revenue desc



Retrieve the total number of orders placed.

select count(distinct(order\_id)) as total\_orders

from orders



Calculate the total revenue generated from pizza sales.

select top 10

pz.pizza\_id,

sum(pz.price \* od.quantity) as revenue

from order\_details as od

join pizza as pz

on od.pizza\_id = pz.pizza\_id

group by pz.pizza\_id



select

sum(pz.price \* od.quantity) as total\_revenue

from order\_details as od

join pizza as pz

on od.pizza\_id = pz.pizza\_id



Identify the highest-priced pizza.

select top 1

pizza\_id,

MAX(price) AS maximum

from pizza

group by pizza\_id

order by MAX(price) desc;



Identify the most common pizza size ordered.

select pizza.size, count(od.order\_details\_id) as order\_count

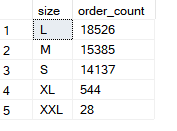
from pizza

join order\_details as od

on pizza.pizza\_id = od.pizza\_id

group by pizza.size

order by order\_count desc



List the top 5 most ordered pizza types along with their quantities.

select top 5

pt.name,

sum(od.quantity) as quantity

from pizza\_types as pt

join pizza as pz

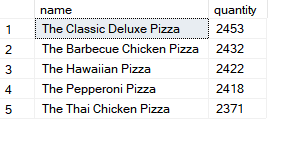
on pt.pizza\_type\_id = pz.pizza\_type\_id

join order\_details as od

on od.pizza\_id =pz.pizza\_id

group by pt.name

order by quantity desc



Join the necessary tables to find the total quantity of each pizza category ordered.

select

pt.category ,

sum(od.quantity) as total\_quantity

from order\_details as od

join pizza as pz

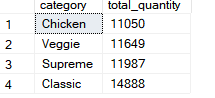
on od.pizza\_id = pz.pizza\_id

join pizza\_types as pt

on pt.pizza\_type\_id = pz.pizza\_type\_id

group by pt.category

order by total\_quantity



Determine the distribution of orders by hour of the day.

select

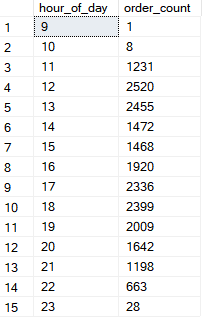
DATEPART(HOUR, time) AS hour\_of\_day,

COUNT(\*) AS order\_count

from orders

group by DATEPART(HOUR, time)

order by hour\_of\_day;



Join relevant tables to find the category-wise distribution of pizzas.

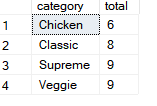
select

category,

count(category) as total

from pizza\_types

group by category



Calculate the percentage contribution of each pizza type to total revenue.

--total revenue : 817860.05

with rev as

(select

round(sum(od.quantity \* pz.price), 2 ) as total\_revenue

from order\_details as od

join pizza as pz

on od.pizza\_id = pz.pizza\_id),

cte as

(select

order\_details.pizza\_id,

sum((order\_details.quantity \* pizza.price)) as revenue

from order\_details

join pizza

on order\_details.pizza\_id = pizza.pizza\_id

group by order\_details.pizza\_id)

SELECT

cte.pizza\_id,

round((cte.revenue \* 100.0 / rev.total\_revenue),3) AS percentage

FROM

cte, rev;

Calculate the percentage contribution of each pizza type to total revenue.

select

round(sum(od.quantity \* pz.price), 2 ) as total\_revenue

from order\_details as od

join pizza as pz

on od.pizza\_id = pz.pizza