

PIZZAA HUT SQL PROJECT





I'M
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This is my first Sql Analysis project for pizzaa hut sales
i have used basic to advance quries to get important
insights

i tried to use different function like joins , limit , cummulative
,asc desc ,sum ,avg etc





OBJECTIVE

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learning the basics and advance queries operation from this project





*Questions - Notepad

File Edit Format View Help

Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

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

Intermediate:

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

Determine the distribution of orders by hour of the day.

Determine the top 3 most ordered pizza types based on revenue.

Advanced:

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

Analyze the cumulative revenue generated over time.

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

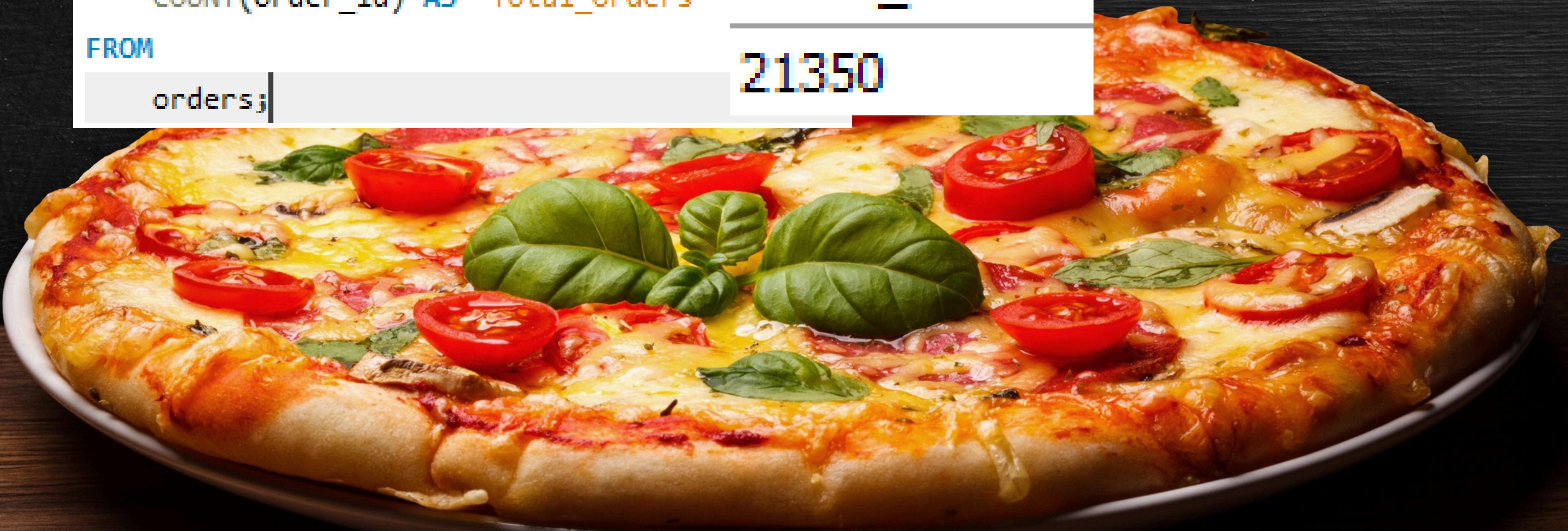
1)

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(order_id) AS 'Total_orders'  
FROM  
    orders;
```

Total_orders

21350



-- Group the orders by date and calculate the average number of pizzas ordered per day.

```
select round(avg(q),0) from  
(select orders.order_date, sum(order_details.quantity) as q  
from orders join order_details  
on orders.order_id= order_details.order_id  
group by orders.order_date) as Order_quantity
```

round(avg(q),0)

128

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

```
select pizza_types.category ,  
       sum(order_details.quantity * pizzas.price ) / (SELECT  
               ROUND(SUM(order_details.quantity * pizzas.price),  
                     2) AS total_sales  
FROM  
       order_details  
       JOIN  
       pizzas ON pizzas.pizza_id = order_details.pizza_id)*100 as revenue  
from pizza_types join pizzas  
on pizza_types.pizza_type_id = pizzas.pizza_type_id  
join order_details  
on pizzas.pizza_id = order_details.pizza_id
```

category	revenue
Veggie	23.682590927384577
Chicken	23.955137556847287
Supreme	25.45631126009862
Classic	26.90596025566967



-- Determine the distribution of orders by hour of the day.

```
select hour(order_time) as hour , count(order_id) as order_count from orders  
group by hour(order_time)
```



hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select name , category , revenue ,
rank( ) over(partition by category order by revenue desc ) as rn
from
(select pizza_types.category, pizza_types.name ,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizza_types.category , pizza_types.name) as a;
```

The Thai Chicken Pizza	Chicken	43434.25	1
The Barbecue Chicken Pizza	Chicken	42768	2
The California Chicken Pizza	Chicken	41409.5	3
The Southwest Chicken Pizza	Chicken	34705.75	4
The Chicken Alfredo Pizza	Chicken	16900.25	5
The Chicken Pesto Pizza	Chicken	16701.75	6
The Classic Deluxe Pizza	Classic	38180.5	1
The Hawaiian Pizza	Classic	32273.25	2
The Pepperoni Pizza	Classic	30161.75	3
The Greek Pizza	Classic	28454.100000000013	4
The Italian Capocollo Pizza	Classic	25094	5
The Napolitana Pizza	Classic	24087	6
The Big Meat Pizza	Classic	22968	7
The Pepperoni, Mushroom, ...	Classic	18834.5	8
The Spicy Italian Pizza	Supreme	34831.25	1



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

```
SELECT
    SUM(order_details.quantity) AS quantity,
    pizza_types.category AS category
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type
GROUP BY pizza_types.category
ORDER BY category DESC;
```



quantity	category
11649	Veggie
11987	Supreme
14888	Classic
11050	Chicken

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

```
2 • SELECT
3     pizza_types.name, SUM(order_details.quantity) AS quantity
4 FROM
5     pizza_types
6     JOIN
7     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8     JOIN
9     order_details ON order_details.pizza_id = pizzas.pizza_id
10 GROUP BY pizza_types.name
11 ORDER BY quantity
12 LIMIT 5;
```



name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371





list sum order count pizza by size

- `SELECT`
 `pizzas.size,`
 `COUNT(order_details.order_details_id) AS order_count`
`FROM`
 `pizzas`
 `JOIN`
 `order_details ON pizzas.pizza_id = order_details.pizza_id`
`GROUP BY pizzas.size`
`ORDER BY order_count DESC;`



size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28

-- Identify the most common pizza size ordered.

```
select quantity, count(order_details_id)
from order_details group by quantity;
```



quantity	count(order_details_id)
1	47693
2	903
3	21
4	3





-- Identify the highest-priced pizza.

```
select pizza_types.name , pizzas.price  
from pizza_types join pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id  
order by pizzas.price desc limit 1;
```



name

price

The Greek Pizza

35.95