SQL PROJECT



PIZZA HUT SALES DATA





ABOUT THE PROJECT





WE HAVE IMPLEMENTED SQL QUERIES RANGING FROM BASIC TO COMPLEX TO EXTRACT VALUABLE INSIGHTS
FROM THE DATA.







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.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

• Query:

```
select count(order_id) as numbers_of_orders_placed
from orders;
```



• Output:

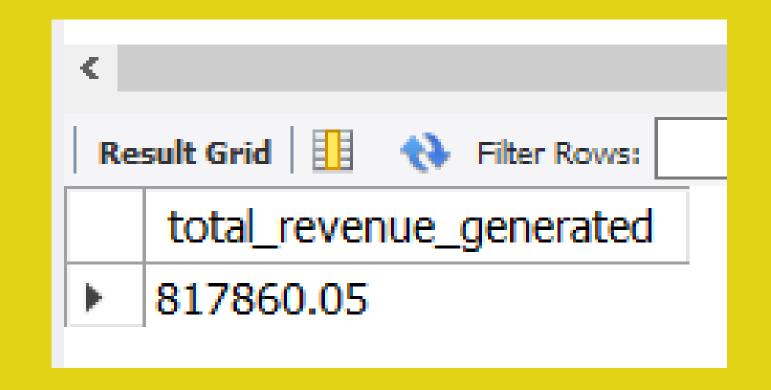
<			
Result Grid			
numbers_of_orders_placed			
▶ 21350			



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES



```
select round(sum(o.quantity*p.price),2) as total_revenue_generated
from order_details o
join pizzas p
on o.pizza_id = p.pizza_id;
```

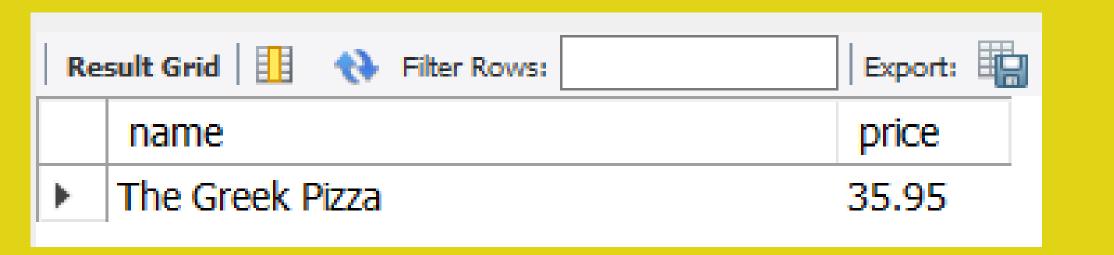






IDENTIFY THE HIGHEST-PRICED PIZZA

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











IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED



```
select p.size, count(p.size) as quantity_sold
from order_details o
join pizzas p
on o.pizza_id = p.pizza_id
group by p.size
order by quantity_sold desc;
Results
```

Result Grid		Filter Rows:
	size	quantity_sold
•	L	18526
	М	15385
	S	14137
	XL	544
	XXL	28



LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES



Result Grid		
	pizza_type_id	quantity
)	classic_dlx	2453
	bbq_ckn	2432
	hawaiian	2422
	pepperoni	2418
	thai_ckn	2371

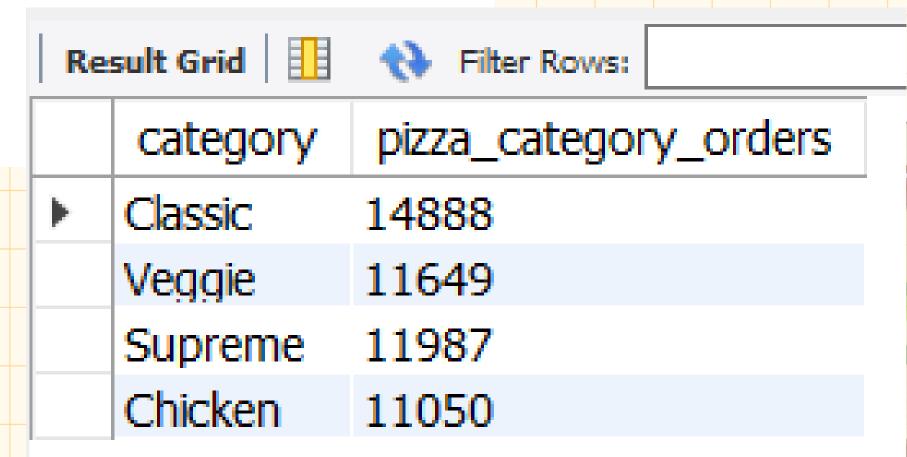




- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
select pt.category, sum(o.quantity) as pizza_category_orders
from order_details o
join pizzas p
on o.pizza_id = p.pizza_id
join pizza_types pt
on p.pizza_type_id = pt.pizza_type_id
group by pt.category;
Result Grid
```



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

select hour(order_time) as hour_of_the_day, count(order_time) as Orders

from orders

group by hour(order_time)

order by hour(order_time);



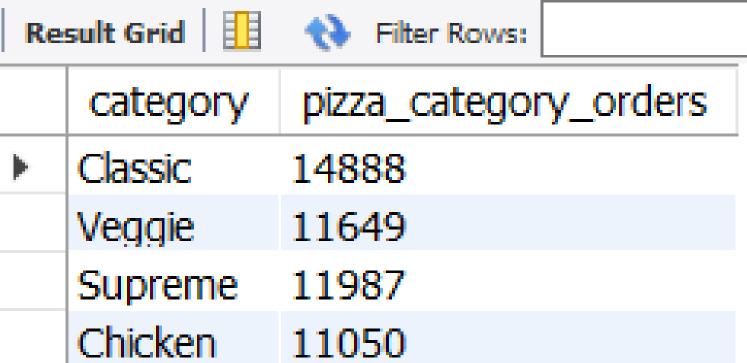


	hour_of_the_day	Orders
•	9	1
	10	8
	11	1231
	12	2520
	13	2455

FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

```
select pt.category, sum(o.quantity) as pizza_category_orders
from order_details o
join pizzas p
on o.pizza_id = p.pizza_id
join pizza_types pt
on p.pizza_type_id = pt.pizza_type_id
Result Grid
```

group by pt.category;



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDEREU PER DAY

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DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

limit 3;

Re	esult Grid	Export:
	name	revenue
>	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



COMPLEX

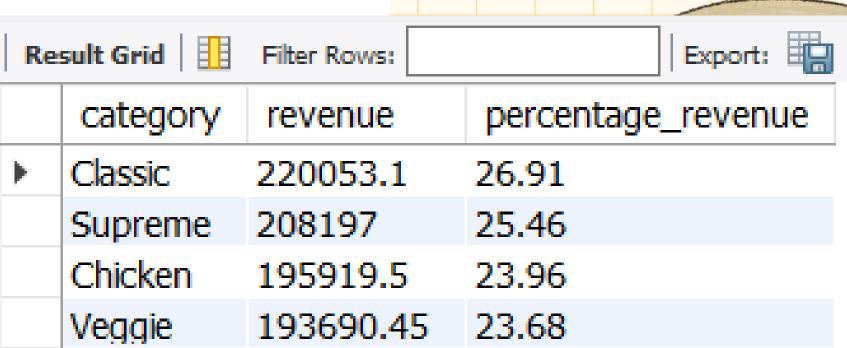
- Calculate the percentage contribution of each pizza type to total revenue.
 - Using Subquery
 - Using CTE
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
• 

with total_revenue as (
       select sum(o.quantity * p.price) as total_revenue1
       from order details o
       join pizzas p
       on o.pizza_id = p.pizza_id)
   select
       pt.category,
       round(sum(o.quantity * p.price),2) as revenue,
       round(SUM(o.quantity * p.price) * 100 / (SELECT total revenue1 FROM total revenue),2)
       AS percentage_revenue
   from
                                                                    Result Grid
       order_details o
       join pizzas p
       on o.pizza_id = p.pizza_id
                                                                       Classic
       join pizza_types pt
                                                                        Supreme
       on p.pizza_type_id = pt.pizza_type_id
       group by pt.category
```

order by percentage revenue desc;



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

SELECT

FROM

```
order_details o
JOIN pizzas p
ON o.pizza_id = p.pizza_id
JOIN pizza_types pt
ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.category;
```

Result Grid			Export: Wrap Cell	
	category	revenue	percentage_revenue	
•	Classic	220053.1000000001	26.9059602556699	
	Veggie	193690.45000000298	23.682590927384783	
	Supreme	208196.99999999822	25.45631126009884	
	Chicken	195919.5	23.955137556847493	

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME



select

```
order_date, revenue,
round(sum(revenue) over (order by order_date),2) as cumulative_revenue
```

from

la hariles Alaria				
	Ke	sult Grid 🔡 🐧	Filter Rows:	Export
		order_date	revenue	cumulative_revenue
	•	2015-01-01	2713.85	2713.85
		2015-01-02	2731.9	5445.75
		2015-01-03	2662.4	8108.15
		2015-01-04	1755.45	9863.6
		2015-01-05	2065.95	11929.55
		2015-01-06	2428.95	14358.5

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY

```
select category, name, revenue
from
    (select
         category, name, revenue,
         rank() over (partition by category order by revenue desc) as most selling
    from
         (select pt.category, pt.name, round(sum(od.quantity*p.price),2) as revenue
         from order_details od
                                                                         category
                                                                                 name
                                                                                                            revenue
         join pizzas p
                                                                                The Thai Chicken Pizza
                                                                        Chicken
                                                                                                            43434.25
                                                                         Chicken
                                                                                The Barbecue Chicken Pizza
                                                                                                            42768
         on od.pizza_id = p.pizza_id
                                                                                The California Chicken Pizza
                                                                                                            41409.5
                                                                         Chicken
         join pizza_types pt
                                                                                The Classic Deluxe Pizza
                                                                                                            38180.5
                                                                         Classic
                                                                                The Hawaiian Pizza
                                                                                                            32273.25
                                                                         Classic
         on p.pizza_type_id = pt.pizza_type_id
         group by pt.category, pt.name) as category_revenue) as cat_rev_with rank
```

where most selling <=3;

