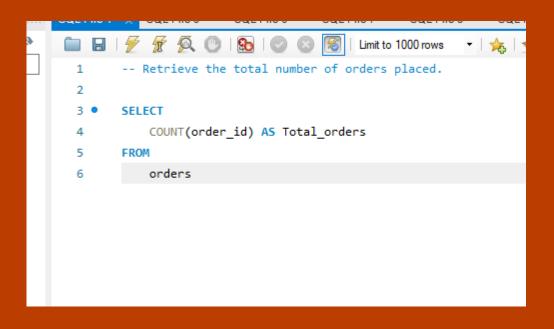
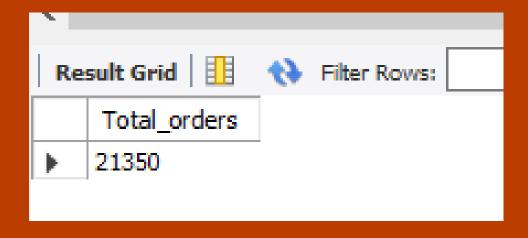
Title: Pizza Sales
Analysis
Subtitle: A SQL Project
Your Name: Aditya
Rawat
Date: 22 August 2024

"The objective of this project is to analyze pizza sales data using SQL to identify trends, optimize sales strategies, and improve business decisions."

Our database consists of tables such as order_details, , pizzas, sales, and pizza_types.

Retrieve the total number of orders placed.





Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

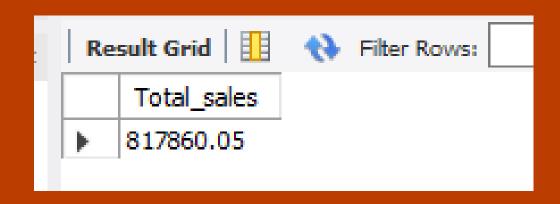
2) AS Total_sales

FROM

order_details

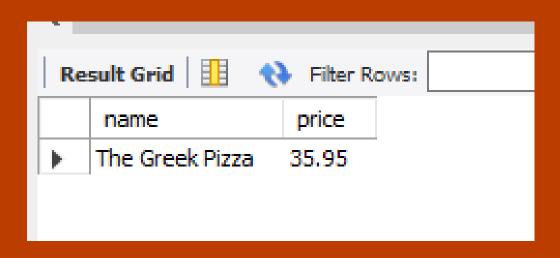
JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id
```



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
```



Identify the most common pizza size ordered.

Re	sult Grid	I 🚻 🔥 F	ilter Rows:	
	size	order_count		
•	L	18526		
	М	15385		
	S	14137		
	XL	544		
	XXL	28		

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

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

Determine the distribution of orders by hour of the day.

```
SELECT

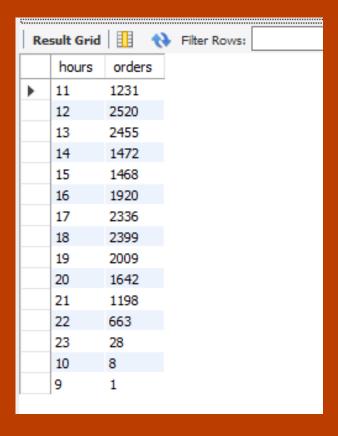
HOUR(orders.order_time) A5 hours,

COUNT(orders.order_id) A5 orders

FROM

orders

GROUP BY hours
```



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

```
SELECT

ROUND(AVG(quantity), 0)

FROM

(SELECT

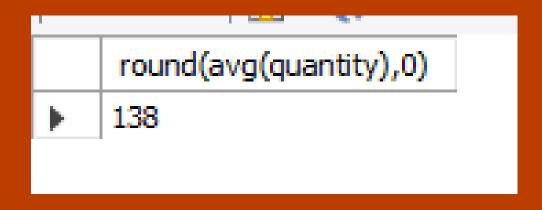
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity
```



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

```
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3
```

100	Sale of the Black Control	131	Техро
	name	revenue	
)	The Thai Chicken Pizza	43434.25	_
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	
	•		

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

```
SELECT

pizza_types.category,

(SUM(pizzas.price * order_details.quantity) / (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

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.category

ORDER BY revenue DESC
```

Classic 26.90596025566 Supreme 25.45631126009
Supreme 25.45631126009
-
Chicken 23.95513755684
Veggie 23.68259092738

Analyze the cumulative revenue generated over time.

```
select order_date ,
sum(revenue) over (order by order_date) as cum_revenue
from
(select orders.order_date ,
sum(order_details.quantity * pizzas.price) as revenue
from order_details join pizzas
on order_details.pizza_id=pizzas.pizza_id
join orders
on orders.order_id=order_details.order_id
group by orders.order_date) as sales
```

order_date	cum_revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.600000000006
2015-01-19	43365.75000000001
2015-01-20	45763.65000000001
2015-01-21	47804.20000000001
2015-01-22	50300.90000000001
2015-01-23	52724.6000000000006
2045 24 24	FF0.40 0F0000000000

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

```
select name , revenue ,category
 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) * pizzas.price) AS revenue
 FROM
     pizza_types
         JOIN
     pizzas ON pizza types.pizza type id = pizzas.pizza type id
     order details ON order details.pizza id = pizzas.pizza id
 GROUP BY pizza types.category , pizza types.name) as a ) as b
  here rn <=3;
```

		_
name	revenue	category
The Thai Chicken Pizza	43434.25	Chicken
The Barbecue Chicken Pizza	42768	Chicken
The California Chicken Pizza	41409.5	Chicken
The Classic Deluxe Pizza	38180.5	Classic
The Hawaiian Pizza	32273.25	Classic
The Pepperoni Pizza	30161.75	Classic
The Spicy Italian Pizza	34831.25	Supreme
The Italian Supreme Pizza	33476.75	Supreme
The Sicilian Pizza	30940.5	Supreme
The Four Cheese Pizza	32265.70000000065	Veggie
The Mexicana Pizza	26780.75	Veggie
The Five Cheese Pizza	26066.5	Veggie

thank you