

PIZZA SALES

ANALYSIS

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INRODUCTION

THE PIZZA SALES ANALYSIS PROJECT USES SQL
TO EXPLORE SALES DATA FROM A PIZZA
RESTAURANT. IT IDENTIFIES TOP-SELLING PIZZAS,
PEAK SALES PERIODS, AND CUSTOMER
PREFERENCES. BY ANALYZING TRENDS IN SALES
PERFORMANCE AND CUSTOMER BEHAVIOR, THE
PROJECT PROVIDES ACTIONABLE INSIGHTS TO
IMPROVE MENU OFFERINGS, OPTIMIZE MARKETING,
AND ENHANCE BUSINESS DECISIONS.

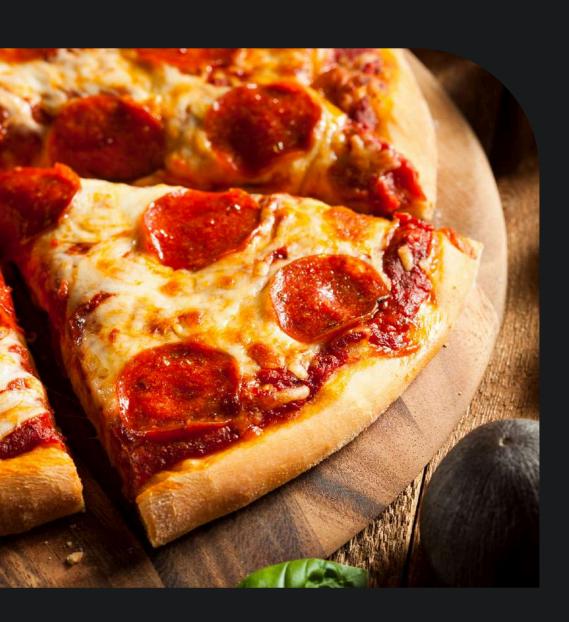
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT
 COUNT(order_id) AS total_orders
FROM
 orders;

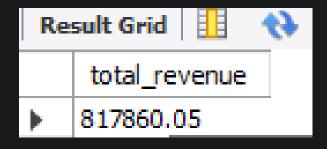
total_orders

≥ 21350

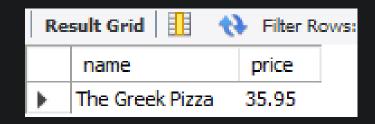


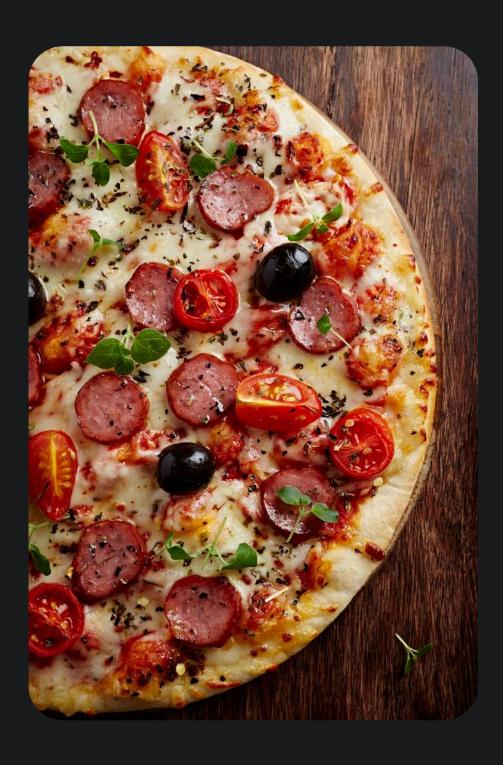


CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



IDENTIFY THE HIGHEST-PRICED PIZZA.

















IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
COUNT(order_details.order_detail_id) AS order_count,
    pizzas.size

FROM

order_details

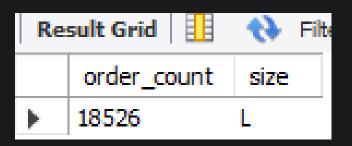
JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizzas.size

ORDER BY order_count DESC

LIMIT 1
```



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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS total_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 total_quantity DESC
LIMIT 5
```

Res	Result Grid 🎚 🙌 Filter Rows:		
	name	total_quantity	
▲	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT

pizza_types.category,

SUM(order_details.quantity) AS quantity

FROM

pizza_types

JOIN

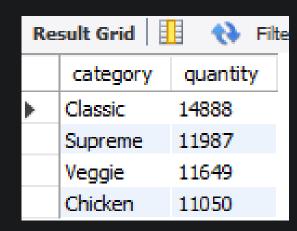
pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

JOIN

order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY category

ORDER BY quantity DESC
```





DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT

HOUR(order_time), COUNT(order_id)

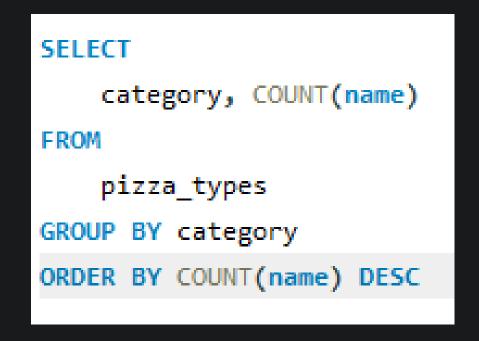
FROM

orders

GROUP BY HOUR(order_time)
```

Re	sult Grid 🔢 🙌	Filter Rows:
	HOUR(order_time)	COUNT(order_id)
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.



Res	sult Grid 🛚 🛚	₩	Filter Row
	category	COUNT	(name)
>	Supreme	9	
	Veggie	9	
	Classic	8	
	Chicken	6	



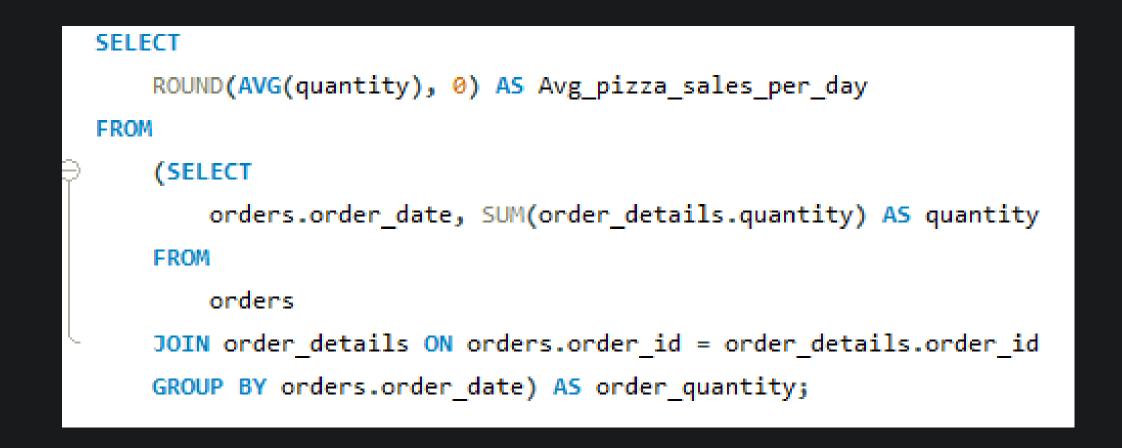


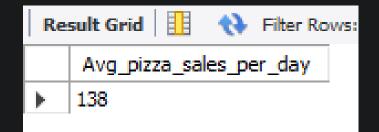




GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE















DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT

pizza_types.name,

SUM(order_details.quantity * pizzas.price) AS pizza_revenue

FROM

order_details

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id

JOIN

pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id

GROUP BY pizza_types.name

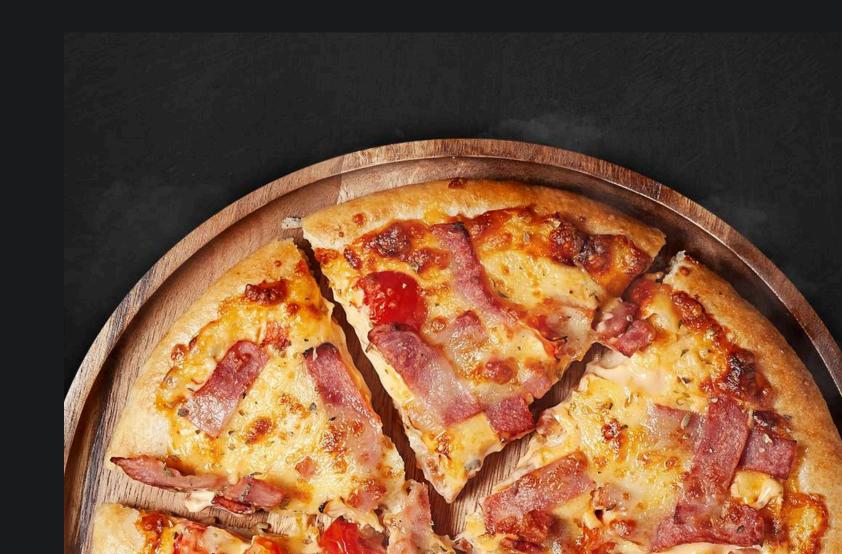
ORDER BY pizza_revenue DESC

LIMIT 3
```

Result Grid		
п	name	pizza_revenue
▶ Ti	he Thai Chicken Pizza	43434.25
Tł	he Barbecue Chicken Pizza	42768
Tł	he California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

Result Grid 🔢 🙌 Filte		
	category	revenue
	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



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 , round(sum(order_details.quantity * pizzas.price),2) as revenue
from orders join order_details
on orders.order_id = order_details.order_id
join pizzas
on pizzas.pizza_id = order_details.pizza_id
group by orders.order_date) as sales
```

Res	sult Grid 📗	N Filter Rows:
	order_date	cum_revenue
)	2015-01-01	2713.85
	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	21526.399999999998
	2015-01-10	23990.35





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 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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category , pizza_types.name ) as a ) as b
where rn <=3</pre>
```



Res	Result Grid 1			
	category	name	revenue	
•	Chicken	The Thai Chicken Pizza	43434.25	
	Chicken	The Barbecue Chicken Pizza	42768	
	Chicken	The California Chicken Pizza	41409.5	
	Classic	The Classic Deluxe Pizza	38180.5	
	Classic	The Hawaiian Pizza	32273.25	
	Classic	The Pepperoni Pizza	30161.75	
	Supreme	The Spicy Italian Pizza	34831.25	
	Supreme	The Italian Supreme Pizza	33476.75	
	Supreme	The Sicilian Pizza	30940.5	
	Veggie	The Four Cheese Pizza	32265.70000000065	









THANK YOU