

PIZZASALES ANALYSIS PROJECT (SQL)





BASIC QUESTIONS:

- 1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.
- 2. CALCULATE THE TOTAL REVENUE GENERATED FROM THE PIZZA SALES.
- 3. IDENTIFY THE HIGHEST-PRICE PIZZA.
- 4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.
- 5. LIST THE TOP 5 MOST ORDERED PIZZA ALONG WITH THEIR QUANTITIES.





INTERMEDIATE QUESTIONS:

- 1. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITES OF EACH PIZZA CATEGORY ORDERED.
- 2. DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.
- 3. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.
- 4. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.
- 5. DETERMINE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.





ADVANCED QUESTIONS:

- 1. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TOTAL REVENUE.
- 2. ANALYZE THE CUMULATIVE REVENUE GENERATED OVERTIME.
- 3. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON THE REVENUE OF EACH PIZZA CATEGORY.



BASIC QUESTIONS





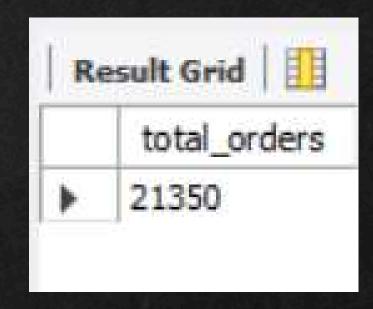
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

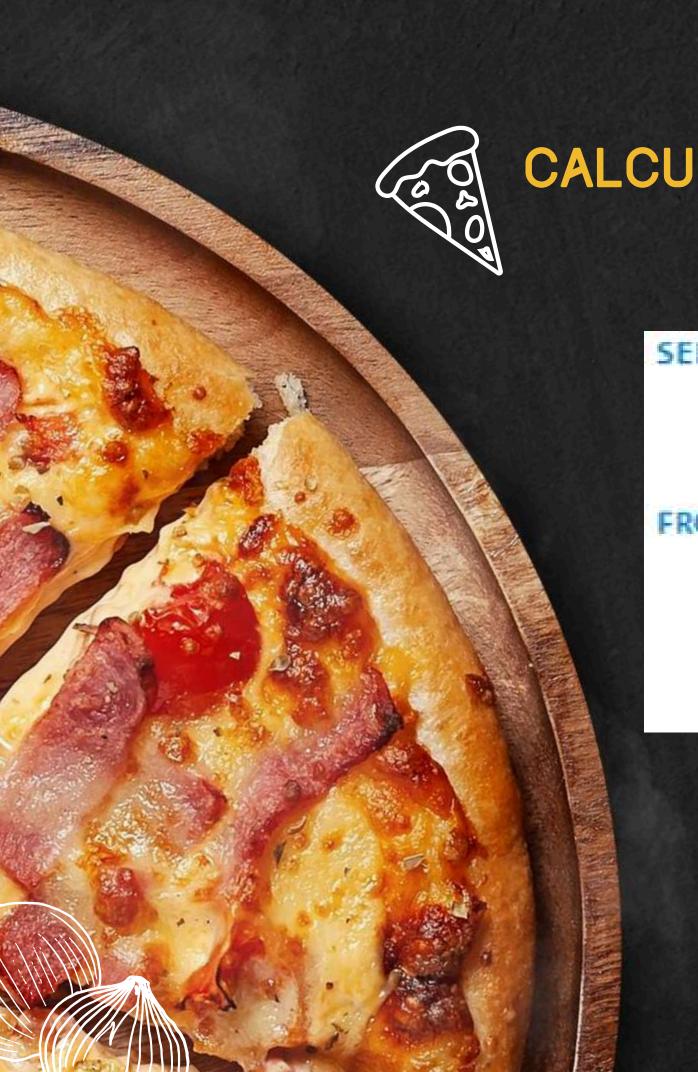
```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```





CALCULATE THE TOTAL REVENUE GENERATED FROM THE PIZZA SALES.

```
SELECT

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

2) AS total_revenue

FROM

order_details

JOIN

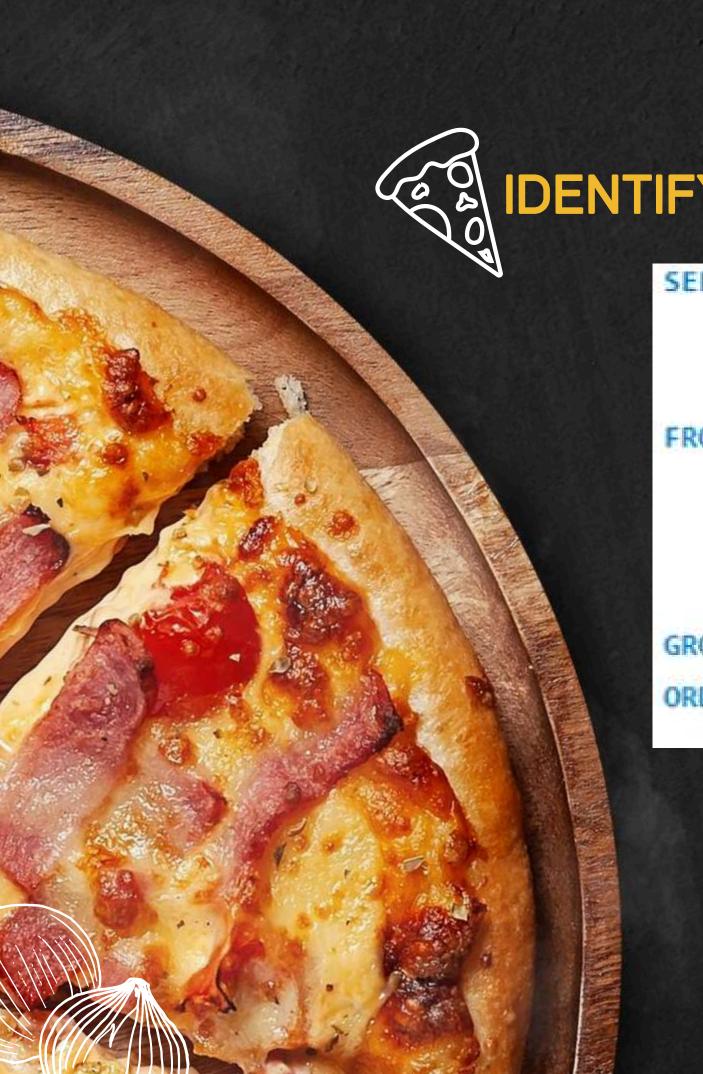
pizzas ON pizzas.pizza_id = order_details.pizza_id
```





IDENTIFY THE HIGHEST-PRICE PIZZA.





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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



LIST THE TOP 5 MOST ORDERED PIZZA 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

INTERMEDIATE QUESTIONS



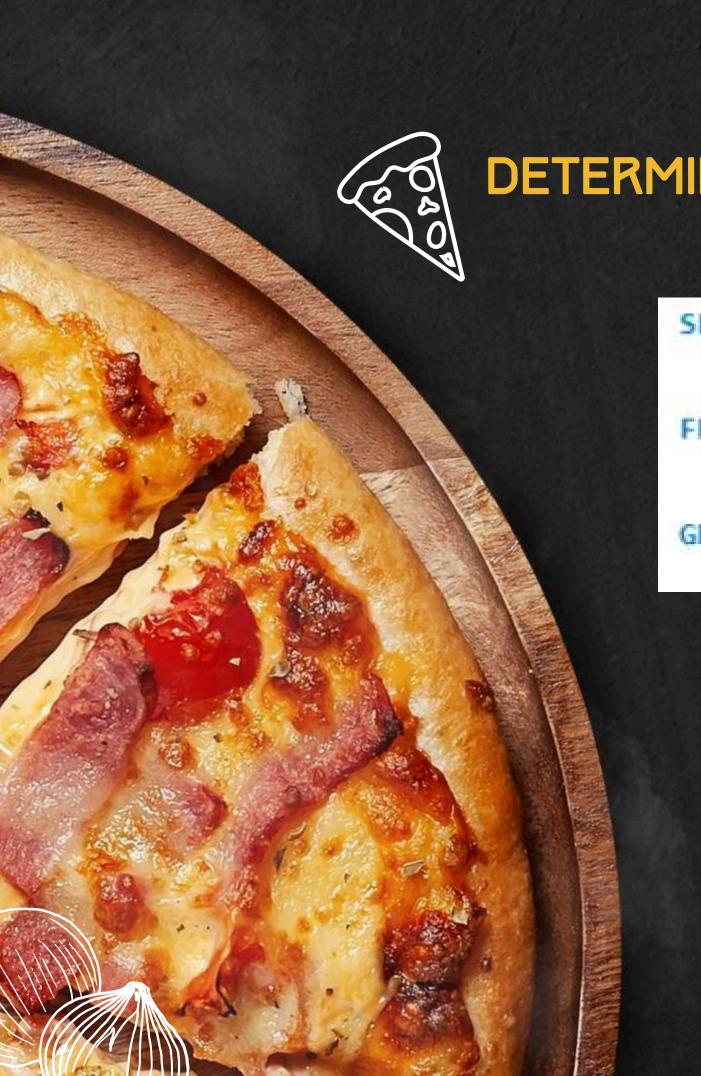


```
JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITES OF EACH PIZZA CATEGORY ORDERED.
```

```
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 pizza_types.category
ORDER BY quantity DESC;
```

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	category	quantity
Þ	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050







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



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

```
SELECT

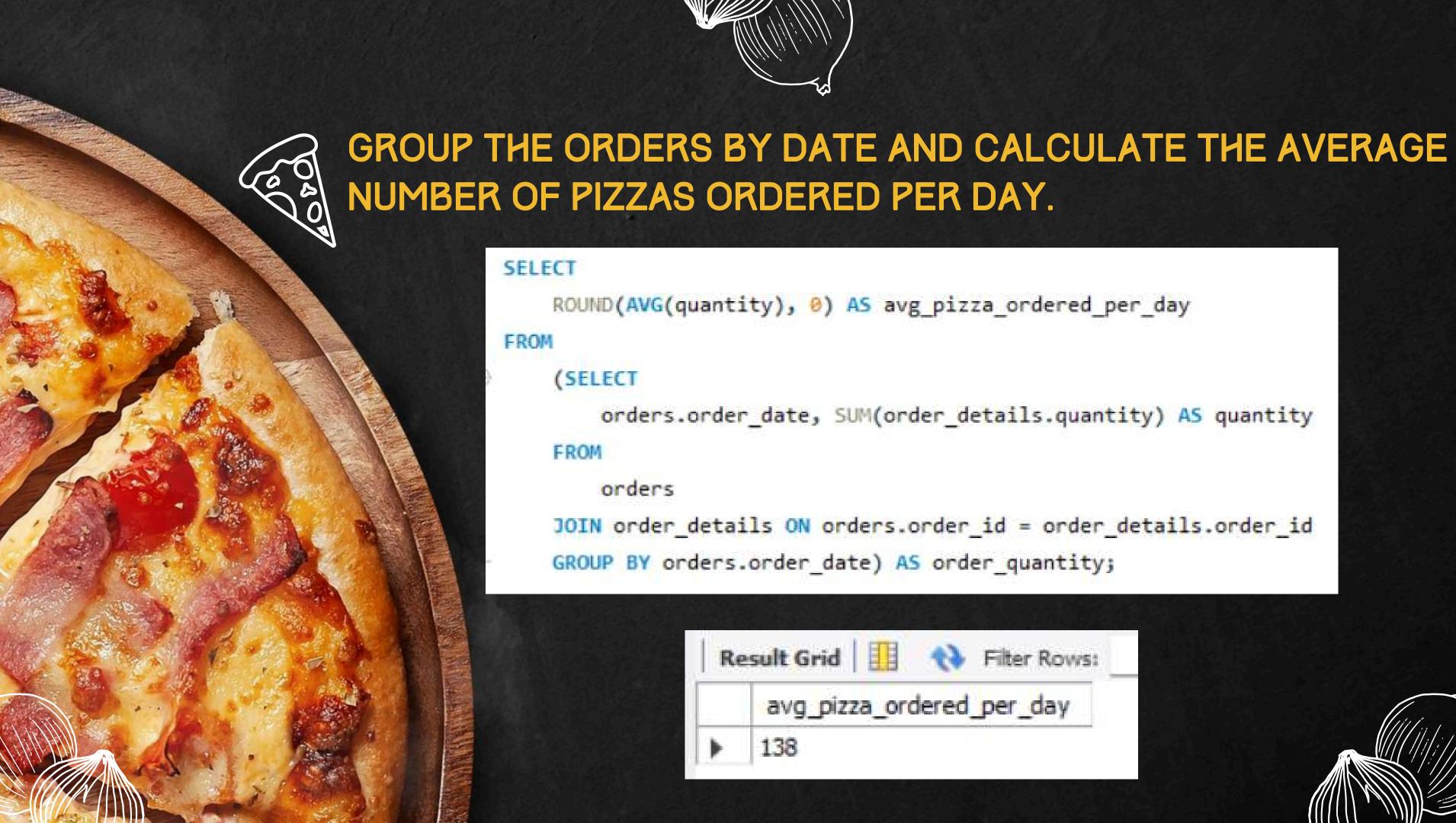
category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

	category	COUNT(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9





DETERMINE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT

pizza_types.name,

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

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.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;
```

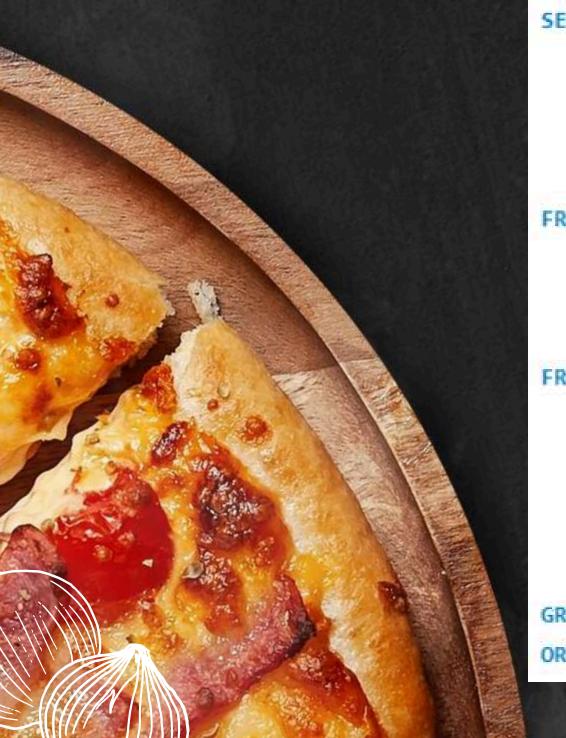
	name revenue	
	Tidine	revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

ADVANCED QUESTIONS





CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TOTAL REVENUE.



```
SELECT
    pizza_types.category,
   ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_revenue
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) 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
ORDER BY revenue DESC;
```

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	category	revenue
>	Classic	26.91
	Supreme	25,46
	Chicken	23.96
	Veggie	23.68







ANALYZE THE CUMULATIVE REVENUE GENERATED OVERTIME.

```
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
Þ	2015-01-01	2713.85000000000004
	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	34343.500000000001



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON THE REVENUE OF 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) * 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;
```

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38 180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

