



ANURUP GOLUI

PRESENTS

SQL
PROJECT

PIZZA SALES ANALYSIS

WATCH NOW





QUESTIONS

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.

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.

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.

QUESTION

RETRIEVE THE TOTAL NUMBER OF
ORDERS PLACED.

ANSWER

```
SELECT COUNT(ORDER_ID) AS  
TOTAL_NUMBER_OF_ORDER_PLACED  
FROM ORDERS;
```

Result Grid



Filter Rows:

	total_number_of_order_placed
▶	21350



QUESTION

CALCULATE THE TOTAL REVENUE
GENERATED FROM PIZZA SALES.

ANSWER

SELECT

```
ROUND(SUM((order_details.quantity * pizzas.price)), 2) AS total_revenue
```

FROM

```
order_details
```

JOIN

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

Result Grid



Filter Rows:

total_revenue



817860.05



QUESTION

IDENTIFY THE HIGHEST-PRICED PIZZA.

ANSWER

```
SELECT
    pizza_types.name AS name_of_pizza,
    pizzas.price AS pizza_price
FROM
    pizzas
    JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY pizza_price DESC
LIMIT 1;
```

Result Grid			Filter Rows:
	name_of_pizza	pizza_price	
▶	The Greek Pizza	35.95	



QUESTION

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

ANSWER

```
SELECT
    pizzas.size AS size,
    SUM(order_details.quantity) AS number_of_times_ordered
FROM
    pizzas
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY number_of_times_ordered DESC
LIMIT 1;
```

Result Grid



Filter Rows:

	size	number_of_times_ordered
▶	L	18956



QUESTION

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

ANSWER

```
SELECT
    pizza_types.name AS pizza_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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_name
ORDER BY total_quantity DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	pizza_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	



QUESTION

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

ANSWER

```
SELECT
    pizza_types.category AS pizza_category,
    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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_category;
```

Result Grid			Filter Rows:
	pizza_category	total_quantity	
▶	Classic	14888	
	Veggie	11649	
	Supreme	11987	
	Chicken	11050	



QUESTION

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

ANSWER

```
SELECT
```

```
    HOUR(order_time) AS hours,  
    COUNT(order_id) AS number_of_order
```

```
FROM
```

```
    orders
```

```
GROUP BY hours;
```

Result Grid			Filter Row
	hours	number_of_order	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	



QUESTION

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

ANSWER

```
SELECT  
    category, COUNT(name) no_of_type_of_pizza  
FROM  
    pizza_types  
GROUP BY category;
```

Result Grid



Filter Rows:

	category	no_of_type_of_pizza
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



QUESTION

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

ANSWER

SELECT

```
distinct(orders.order_date) as Date ,sum(order_details.quantity)
over(partition by orders.order_date)
as total_order_quantity
from orders join order_details on
orders.order_id = order_details.order_id;
```

Result Grid			Filter Rows:
	Date	total_order_quantity	
►	2015-01-01	162	
	2015-01-02	165	
	2015-01-03	158	
	2015-01-04	106	
	2015-01-05	125	
	2015-01-06	147	
	2015-01-07	138	
	2015-01-08	173	



QUESTION

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

ANSWER

```
SELECT
    pizza_types.name AS pizza_name,
    SUM(order_details.quantity * pizzas.price) AS total_price
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_name
ORDER BY total_price DESC
LIMIT 3;
```



Result Grid



Filter Rows:


	pizza_name	total_price
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

QUESTION

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA

TYPE TO TOTAL REVENUE.

ANSWER



Result Grid		Filter Rows:
	pizza_name	percentage
▶	The Barbecue Chicken Pizza	5.23
	The Big Meat Pizza	2.81
	The Brie Carre Pizza	1.42
	The Calabrese Pizza	1.95
	The California Chicken Pizza	5.06
	The Chicken Alfredo Pizza	2.07
	The Chicken Pesto Pizza	2.04
	The Classic Deluxe Pizza	4.67

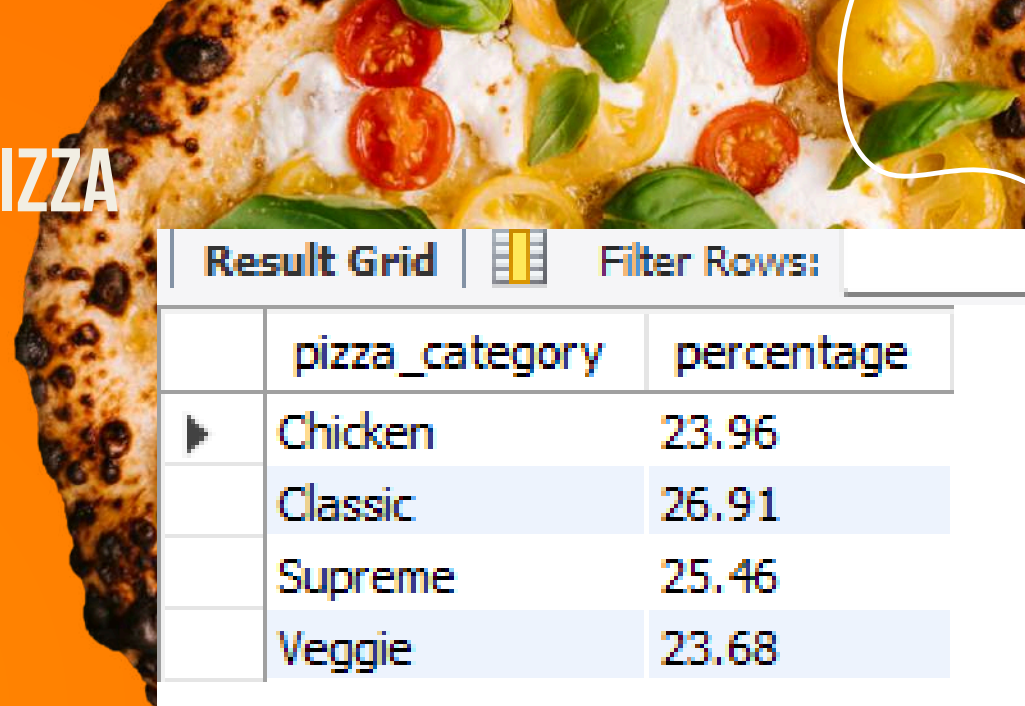
```
with table1 as (SELECT
    distinct(pizza_types.name) as pizza_name,
    SUM(order_details.quantity * pizzas.price) over(partition by pizza_types.name) as pizza_types_total_price,
    SUM(order_details.quantity * pizzas.price) over() as total_price
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id)
select pizza_name, round(((pizza_types_total_price/total_price)*100),2) as percentage from table1;
```

QUESTION

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA

CATEGORY TO TOTAL REVENUE.

ANSWER



Result Grid		Filter Rows:
	pizza_category	percentage
▶	Chicken	23.96
	Classic	26.91
	Supreme	25.46
	Veggie	23.68

```
with table1 as (SELECT
    distinct(pizza_types.category) as pizza_category,
    SUM(order_details.quantity * pizzas.price) over(partition by pizza_types.category) as pizza_category_total_price,
    SUM(order_details.quantity * pizzas.price) over() as total_price
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)
select pizza_category, round((((pizza_category_total_price/total_price)*100),2) as percentage from table1;
```


QUESTION

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

ANSWER

```
select date_order, sum(revenue_generated) over(order by date_order) as revenue_over_time from
(select orders.order_date as date_order, sum(pizzas.price * order_details.quantity) as revenue_generated 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 table1;
```

	Result Grid		Filter Rows:
	date_order	revenue_over_time	
▶	2015-01-01	2713.8500000000000004	
	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	



QUESTION

DETERMINE THE TOP 3 MOST ORDERED PIZZA


TYPES BASED ON REVENUE FOR EACH PIZZA

CATEGORY.

ANSWER


```
select category, pizza_name, total_price, ranking from
(select category, pizza_name, total_price,
rank() over(partition by category order by total_price desc ) as ranking from
(SELECT
    pizza_types.category as category , pizza_types.name AS pizza_name,
    SUM(order_details.quantity * pizzas.price) AS total_price
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 category , pizza_name) as table1) as table2 where ranking <=3;
```

Result Grid



Filter Rows:

Export:



Wrap Cell

	category	pizza_name	total_price	ranking
▶	Chicken	The Thai Chicken Pizza	43434.25	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3
	Classic	The Classic Deluxe Pizza	38180.5	1
	Classic	The Hawaiian Pizza	32273.25	2
	Classic	The Pepperoni Pizza	30161.75	3
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2





THANK YOU

