

PIZZA ORDERS ANALYSIS USING SQL





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RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

Query:

```
SELECT  
COUNT(order_id) AS total_order  
FROM  
orders;
```

	total_order
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

Query:

```
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;
```

total_sales
817860.05



IDENTIFY THE HIGHEST-PRICED PIZZA.

Query:

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

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

Query:

```
SELECT  
COUNT(order_details_id)  
FROM  
order_details  
GROUP BY quantity;
```

```
SELECT  
pizzas.size,  
COUNT(order_details.order_details_id) AS order_count  
FROM  
pizzas  
JOIN  
order_details ON order_details.pizza_id = pizzas.pizza_id  
GROUP BY pizzas.size  
ORDER BY order_count DESC;
```

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

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



Query:

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;

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Query:

```
SELECT
    pizza_types.category,
    ROUND(
        SUM(order_details.quantity * pizzas.price) /
        (SELECT SUM(order_details.quantity * pizzas.price)
        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;
```

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



Query:
SELECT
order_date,
ROUND(SUM(revenue) OVER (ORDER BY
order_date), 2) 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	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55



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

Query:

```
select category, name, revenue, rn
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
```

	category	name	revenue	rn
	Classic	The Pepperoni Pizza	30161.75	3
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2
	Supreme	The Sicilian Pizza	30940.5	3
	Veggie	The Four Cheese Pizza	32265.70000000065	1
	Veggie	The Mexicana Pizza	26780.75	2
	Veggie	The Five Cheese Pizza	26066.5	3



THANK YOU

This concludes the Pizza Order
Analysis using SQL.