

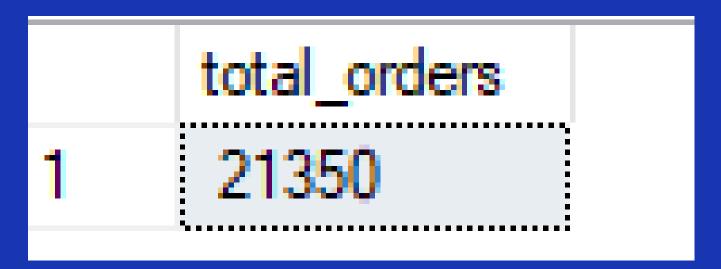


PIZZA SALES ANALYSIS PROJECT

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```
-- Q.1 Retrieve the total number of orders placed.
```

Select
COUNT(order_id) AS total_orders
FROM
orders



```
-- Q.2 Calculate the total revenue generated from pizza sales.

| Select | ROUND(SUM(pizzas.price * order_details.quantity), 2) AS total_revenue FROM | pizzas |
| JOIN order_details ON pizzas.pizza_id = order_details.pizza_id
```

total_revenue 1 817860.05

```
-- Q.3 Identify the highest-priced pizza.

Select

TOP 1 pizza_types2.name,
 pizzas.price

FROM
 pizza_types2
 JOIN pizzas ON pizza_types2.pizza_type_id = pizzas.pizza_type_id

ORDER BY
 pizzas.price DESC
```

name	price
	35.9500007629395

```
-- Q.4 Identify the most common pizza size ordered.
⊡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
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28

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

```
■ Select

TOP 5 pizza_types2.name,
SUM(order_details.quantity) AS quantity_ordered

FROM

pizza_types2

JOIN pizzas ON pizza_types2.pizza_type_id = pizzas.pizza_type_id

JOIN order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY

pizza_types2.name

ORDER BY

quantity_ordered DESC
```

	name	quantity_ordered
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

```
-- Q.6 Join the necessary tables to find the total quantity of each pizza category ordered.

[Select
    pizza_types2.category,
    SUM(order_details.quantity) AS total_quantity

FROM
    pizza_types2
    JOIN pizzas ON pizza_types2.pizza_type_id = pizzas.pizza_type_id
    JOIN order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY
    pizza_types2.category

ORDER BY
    total_quantity DESC
```

	category	total_quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

	order_hours	num_of_orders
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009

num_of_orders DESC

```
-- Q.8 Join relevant tables to find the category-wise distribution of pizzas.

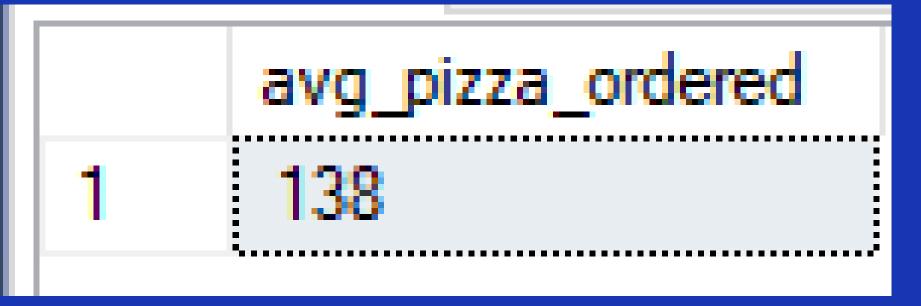
Select
   category,
   COUNT(name) AS num_of_pizzas

FROM
   pizza_types2

GROUP BY
   category

ORDER BY
   num_of_pizzas DESC
```

	category	num_of_pizzas
1	Supreme	9
2	Veggie	9
3	Classic	8
4	Chicken	6



```
-- Q.10 Determine the top 5 most ordered pizza types based on revenue.
Select
  TOP 5 pizza_types2.name,
  Round(SUM(order_details.quantity * pizzas.price), 2) AS total_sales
FROM
  order_details
  JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
  JOIN pizza_types2 ON pizzas.pizza_type_id = pizza_types2.pizza_type_id
GROUP BY
  pizza_types2.name
ORDER BY
  total_sales DESC
```

	name	total_sales
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5
4	The Classic Deluxe Pizza	38180.5
5	The Spicy Italian Pizza	34831.25

```
-- Q.11 Calculate the percentage contribution of each pizza type to total revenue.
Select
  pizza_types2.category,
  ROUND(SUM(order_details.quantity * pizzas.price) * 100 / (Select)
        SUM(order_details.quantity * pizzas.price)
      From
        order details
        JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id), 2) AS revenue
FROM
  order details
  JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
  JOIN pizza_types2 ON pizza_types2.pizza_type_id = pizzas.pizza_type_id
Group by
  pizza types2.category
Order by
  revenue Desc
```

	category	revenue
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68

```
Select date,
  ROUND(SUM(revenue) Over(ORDER BY date),2) As cum_revenue
FROM
  (Select orders.date,
      SUM(order_details.quantity * pizzas.price) AS revenue
    FROM
      orders
      JOIN order_details ON orders.order_id = order_details.order_id
      JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
    GROUP BY
      orders.date) AS sales
```

-- Q.12 Analyze the cumulative revenue generated over time.

	date	cum_revenue
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55

```
-- Q.13 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 rank_num
    FROM
      (Select pizza_types2.category, pizza_types2.name,
          ROUND(SUM(order_details.quantity * pizzas.price),2) AS revenue
        FROM
          pizza_types2
          JOIN pizzas ON pizza_types2.pizza_type_id = pizzas.pizza_type_id
          JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
        GROUP BY pizza_types2.name, pizza_types2.category) AS a) AS b
WHERE
  rank_num <= 3
```

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
	Chicken Chicken Chicken Classic	Chicken The Thai Chicken Pizza Chicken The Barbecue Chicken Pizza Chicken The California Chicken Pizza Classic The Classic Deluxe Pizza



THANK YOU

Feel free to reach out if you'd like to learn more or collaborate on similar projects!

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