
VANSH MEHRA
RESTAURANT
Specialist in Italian Food

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ABOUT US

We are a restaurant that focuses on delivering delicious foods, good quality, hygiene, and healthy menu combinations.

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WHY CHOOSE US

Our restaurant has a variety of delicious food that can bring happiness to all of our customers

HERE ARE SOME QUERY ASKED BY MANAGER OF THE RESTRAUNT

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.

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```sql
#1. Retrieve the total number of orders placed.
select count(order_id) as total_orders from orders;
```

Result Grid

Total_orders
21350

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```sql
#2. Calculate the total revenue generated from pizza sales.
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

total_revenue
817860.05

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```sql
#3. Identify the highest-priced pizza.
select pizzas.price as highest_price,pizza_types.name from pizzas
join pizza_types
on pizza_types.pizza_type_id=pizzas.pizza_type_id
order by highest_price desc
limit 1;
```

Result Grid | Filter Rows:

highest_price	name
35.95	The Greek Pizza

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```sql
# 4. Identify the most common pizza size ordered.
select  pizzas.size,count(order_details.order_id * order_details.quantity) as total_order from pizzas
join order_details
on order_details.pizza_id=pizzas.pizza_id
group by size
order by total_order desc;
```

Result Grid

size	total_order
L	18526
M	15385
S	14137
XL	544
XXL	28

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```sql
#5. List the top 5 most ordered pizza types along with their quantities.
select 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 name
order by total_quantity desc
limit 5;
```

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

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```sql
#6.Join the necessary tables to find the total quantity of each pizza category ordered.
select 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 category
order by total_quantity desc;
```

Result Grid | Filter Rows:

category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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```sql
#7.Determine the distribution of orders by hour of the day.
select hour(order_time) as hour,count(order_id) from orders
group by hour
order by count(order_id) desc;
```

Result Grid | Filter Rows:

hour	count(order_id)
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198

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```
#8.Join relevant tables to find the category-wise distribution of pizzas.
select category,count(name) category_wise_distribution from  pizza_types
group by category;
```

Result Grid | Filter Rows:

category	category_wise_distribution
Chicken	6
Classic	8
Supreme	9
Veggie	9

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```sql
#9.Group the orders by date and calculate the average number of pizzas ordered per day.
select avg(order_by_day) from (select order_date,sum(quantity) as order_by_day from orders
join order_details
on orders.order_id=order_details.order_id
group by order_date) as data;
```

Result Grid | Filter Rows:

avg(order_by_day)
138.4749

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```sql
#10.Determine the top 3 most ordered pizza types based on revenue.
select name,round(sum(pizzas.price * order_details.quantity),0) as total_revenue 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 name
order by total_revenue desc
limit 3;
```

Result Grid | Filter Rows:

name	total_revenue
The Thai Chicken Pizza	43434
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410

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```sql
#11.Calculate the percentage contribution of each pizza type to total revenue.
SELECT category,concat(round(sum((order_details.quantity * pizzas.price)/(select sum(order_details.quantity * pizzas.price) from pizzas
                                                                                join  order_details
                                                                            on pizzas.pizza_id=order_details.pizza_id)*100),2),"%") as percent_contribution
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;
```

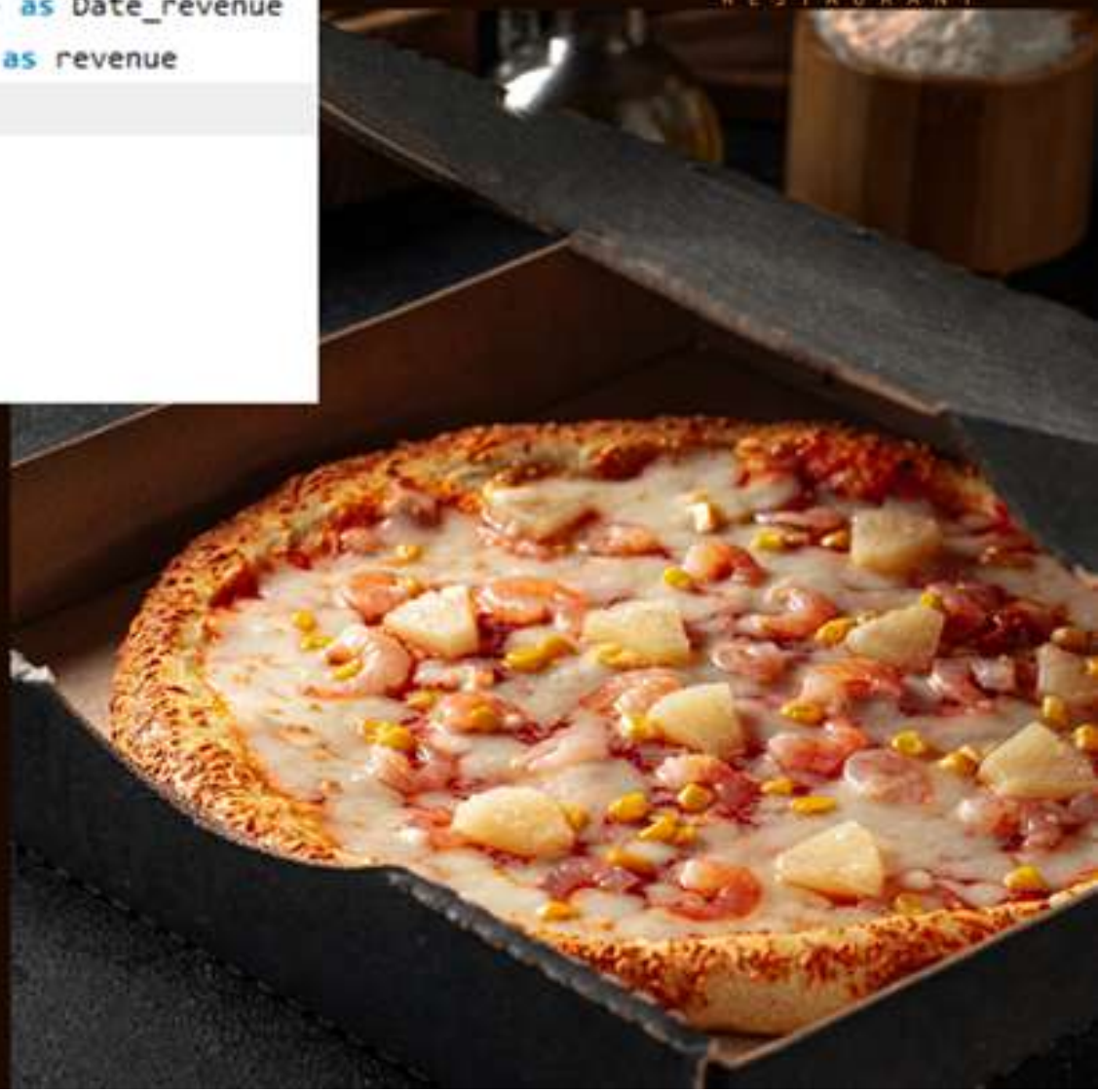
Result Grid | Filter Rows:

category	percent_contribution
Classic	26.91%
Veggie	23.68%
Supreme	25.46%
Chicken	23.96%

```sql
#12.Analyze the cumulative revenue generated over time.
select order_date,sum(revenue) over(order by order_date) as Date_revenue
from (select  order_date,round(sum(quantity * price),2) 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 order_date) as sales;
```

Result Grid | Filter Rows:

order_date	Date_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
2015-01-11	25862.649999999998



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```sql
#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,
 row_number() over (partition by category order by revenue desc) as rn
 from (select category,name,sum(pizzas.price*order_details.quantity) as revenue 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,name) as cat_revenue) as full_revenue
 where rn<=3;
```

Result Grid | Filter Rows: | Export:

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
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5

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THANK YOU