PROJECT PIZZA

sales for Data Analysis

SQL

HELLO

I'm Vishalni Sivadasan. In this project, I have used SQL query to solve some questions that are related to pizza sales.

SCHEMAS

Filter objects

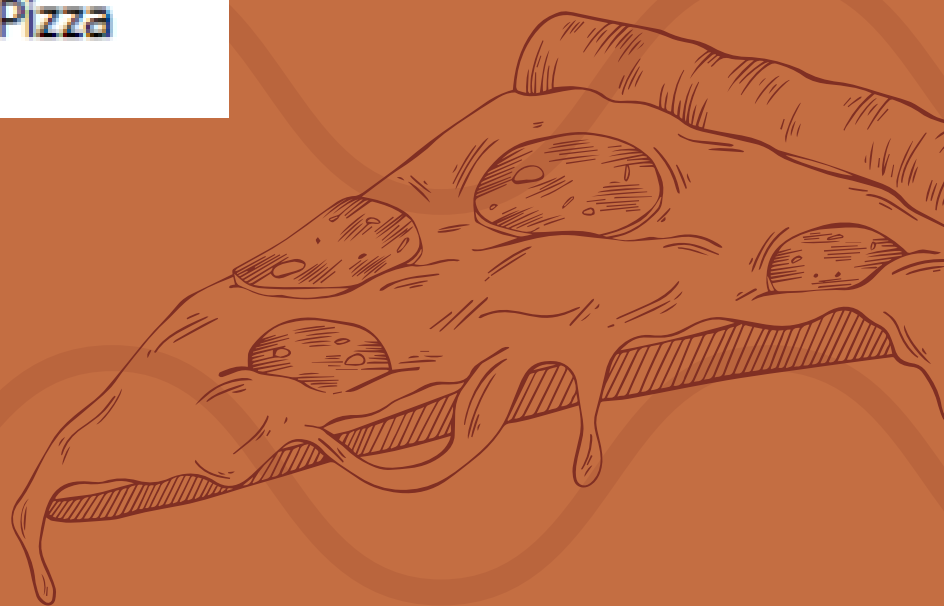
- pizzasalesproject
  - Tables
    - order_details
    - orders
    - pizza_types
    - pizzas
  - Views
  - Stored Procedures
  - Functions
- sys

IDENTIFY THE HIGHEST-PRICED PIZZA

```sql
select pizzas.price, pizza_types.name
from pizza_types join pizzas
on pizzas.pizza_type_id = pizza_types.pizza_type_id
order by pizzas.price desc limit 1
```

Result Grid | Filter Row

price	name
35.95	The Greek Pizza

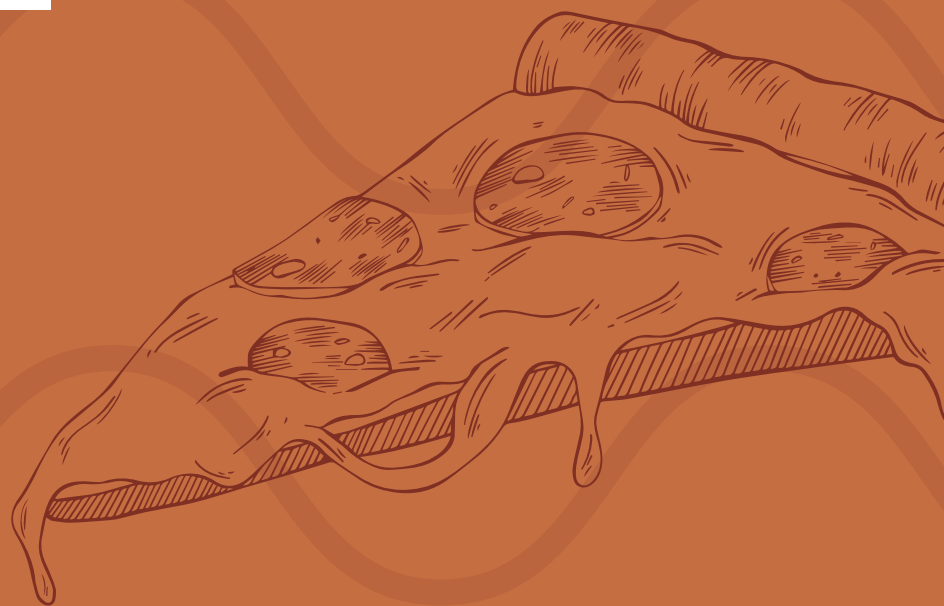


RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```sql
select count(order_id) as total_orders from orders;
```

Result Grid

	total_orders
▶	1369



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```sql
select
round(sum(order_details.quantity * pizzas.price),3) as total_revenue
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id
```

Result Grid

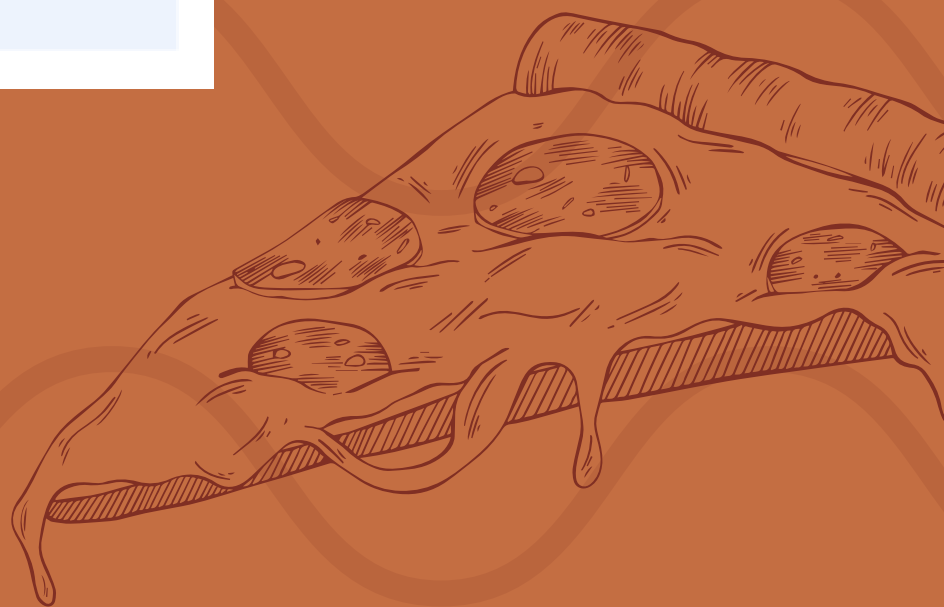
total_revenue
40670.15

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```sql
select pizzas.size, count(order_details.quantity) as pizza_size_ordered
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size order by pizza_size_ordered desc -- limit 1
```

Result Grid | Filter Rows:

size	pizza_size_ordered
L	939
M	770
S	673
XL	30



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

```sql
select pizza_types.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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name
order by total_quantity desc limit 5
```

Result Grid | Filter Rows:

name	total_quantity
The Pepperoni Pizza	151
The Barbecue Chicken Pizza	125
The Thai Chicken Pizza	117
The California Chicken Pizza	116
The Classic Deluxe Pizza	113

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

```sql
select pizza_types.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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category
order by category asc
```

Result Grid | Filter Rows:

category	total_quantity
Chicken	544
Classic	727
Supreme	613
Veggie	578

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```sql
select hour(time), count(order_id)
from orders
group by hour(time)
```

Result Grid | Filter Rows:

hour(time)	count(order_id)
11	74
12	168
13	147
14	120
15	105
16	121
17	160
18	147

Result Grid | Filter Rows:

hour(time)	count(order_id)
16	121
17	160
18	147
19	129
20	96
21	62
22	39
23	1

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

```sql
select category, count(pizza_type_id)
from pizza_types
group by category
```

Result Grid | Filter Rows:

category	count(pizza_type_id)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

```sql
select round(avg(quantity),0) as avg_pizza_ordered
from
(select orders.date, sum(order_details.quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.date) as ordered_pizza
```

Result Grid | Filter Rows:

	avg_pizza_ordered
▶	137

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```sql
select pizza_types.name, sum(pizzas.price * order_details.quantity) as total_revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.name
order by total_revenue desc limit 3
```

Result Grid | Filter Rows:

name	total_revenue
The Barbecue Chicken Pizza	2225.75
The Thai Chicken Pizza	2175.75
The California Chicken Pizza	2003

ADVANCED QUERY

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```sql
select date, round(sum(Total_revenue) over(order by date),2) as cumulative_revenue
from
(select orders.date, round(sum(order_details.quantity * pizzas.price),2) as Total_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.date) as Total_sales
```

Result Grid | Filter Rows:

date	cumulative_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	21526.4
2015-01-10	23990.35
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.3
2015-01-14	32358.7
2015-01-15	34343.5
2015-01-16	36937.65
2015-01-17	39001.75
2015-01-18	40670.15

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```sql
select pizza_types.name, round(sum(pizzas.price * order_details.quantity)/
(select round(sum(pizzas.price * order_details.quantity ),2) as Total_sales
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id) * 100,2) as Total_revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.name
order by Total_revenue desc
```

Result Grid | Filter Rows:

name	Total_revenue
The Barbecue Chicken Pizza	5.47
The Thai Chicken Pizza	5.35
The California Chicken Pizza	4.92
The Pepperoni Pizza	4.72
The Italian Supreme Pizza	4.57
The Classic Deluxe Pizza	4.39
The Spicy Italian Pizza	4.35
The Sicilian Pizza	4.28
The Southwest Chicken Pizza	3.97
The Greek Pizza	3.61
The Five Cheese Pizza	3.55
The Four Cheese Pizza	3.55
The Hawaiian Pizza	3.48
The Pepper Salami Pizza	3.39
The Mexicana Pizza	3.34
The Vegetables + Vegetable...	3.21
The Prosciutto and Arugula ...	2.94
The Spinach and Feta Pizza	2.92
The Napolitana Pizza	2.91
The Italian Capocollo Pizza	2.83
The Big Meat Pizza	2.51
The Spinach Supreme Pizza	2.16
The Chicken Alfredo Pizza	2.14
The Italian Vegetables Pizza	2.08
The Chicken Pesto Pizza	2.02

The Chicken Pesto Pizza	2.02
The Spinach Pesto Pizza	1.95
The Pepperoni, Mushroom, ...	1.88
The Green Garden Pizza	1.73
The Soppressata Pizza	1.69
The Mediterranean Pizza	1.58
The Calabrese Pizza	1.57
The Brie Carre Pizza	0.93

1.73

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

```sql
select name, category, Total_revenue
from
(select category, name, Total_revenue, rank()
over(partition by category order by Total_revenue desc) as Ranking
from
(select pizza_types.category as category, pizza_types.name as name,
round(sum(pizzas.price * order_details.quantity),2) as Total_revenue
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
join pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by name, category) as subquery1) as subquery2
where Ranking <= 3
```

Result Grid | Filter Rows: | Export:

name	category	Total_revenue
The Barbecue Chicken Pizza	Chicken	2225.75
The Thai Chicken Pizza	Chicken	2175.75
The California Chicken Pizza	Chicken	2003
The Pepperoni Pizza	Classic	1917.75
The Classic Deluxe Pizza	Classic	1784.5
The Greek Pizza	Classic	1469
The Italian Supreme Pizza	Supreme	1857.5
The Spicy Italian Pizza	Supreme	1770.75
The Sicilian Pizza	Supreme	1740.25
The Four Cheese Pizza	Veggie	1444.5
The Five Cheese Pizza	Veggie	1443
The Mexicana Pizza	Veggie	.25

Veggie

THANK YOU