



DOMINO'S SALES ANALYSIS



ANURAG BISHT



OBJECTIVE

The Pizza Sales Project is a data analysis project aimed at analysing sales data from a pizza restaurant chain. This project utilizes SQL for data extraction and transformation. The goal of this project is to provide insights and actionable information to help the pizza restaurant chain optimize its operations, improve sales, and enhance customer satisfaction.

DATABASE



order_details
◇ order_details_id INT
◇ order_id INT
◇ pizza_id TEXT
◇ quantity INT

pizza_type
◇ pizza_type_id VARCHAR(45)
◇ name VARCHAR(65)
◇ category VARCHAR(45)
◇ ingredients VARCHAR(100)

orders
💡 order_id INT
◇ order_date DATE
◇ order_time TIME
Indexes ▶

pizzas
◇ pizza_id TEXT
◇ pizza_type_id TEXT
◇ size TEXT
◇ price DOUBLE

LEVEL OF QUERIES



BASIC

Includes
Select, where,
Group, order, joins

INTERMEDIATE

Includes
Multi-Joins, Group,
Limit, Sub-queries

ADVANCED

Includes
Windows Function,
CTE

BASIC

Retrieve the total number of orders placed.

Solution :

```
9
10 • select count(*) AS Total_orders
11    from dominos.orders;
12
```

Result :

Result Grid		Filter Rows:	Search	Export:
Total_orders				
▶	21350			
Result 1				



BASIC

Calculate the total revenue generated from pizza sales.

Solution :

```
• select sum(pizzas.price*order_details.quantity) as total_revenue from
  dominos.pizzas
  join
  dominos.order_details on
  pizzas.pizza_id=order_details.pizza_id;
```

Result :

Result Grid		Filter Rows:	Search
	total_revenue		
▶	817860.049999993		
Result 3			





BASIC

Identify the highest-priced pizza.

Solution :

```
• select pizza_type.name , price  
  from dominos.pizzas join dominos.pizza_type on  
    pizzas.pizza_type_id=pizza_type.pizza_type_id  
 where price = (select max(price) from pizzas);
```

Result :

Result Grid   Filter Rows: <input type="text" value="Search"/>			
	name	price	
▶	The Greek Pizza	35.95	





BASIC

Identify the most common pizza size ordered.

Solution :

```
• select pizzas.size,count(order_details.quantity) as total
  from dominos.pizzas join
  dominos.order_details on
  pizzas.pizza_id=order_details.pizza_id
 group by pizzas.size
 order by total desc limit 1;
```

Result :

Result Grid   Filter Rows: <input type="text"/>			
	size	total	
▶	L	18526	



BASIC

Retrieve the total number of orders placed.

Solution :

```
• select pizza_type.name, sum(order_details.quantity) as times
  from order_details
  join
  pizzas on
  order_details.pizza_id=pizzas.pizza_id
  join pizza_type on
  pizza_type.pizza_type_id=pizzas.pizza_type_id
 group by pizza_type.name
 order by times desc limit 5;
```

Result :

Result Grid			
		Filter Rows:	Search
	name	times	
	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	





INTERMEDIATE

Join the necessary tables to find the total quantity of each pizza category ordered

Solution :

```
• select pizza_type.category, sum(order_details.quantity) as times
  from order_details
    join
      pizzas on
        order_details.pizza_id=pizzas.pizza_id
    join pizza_type on
        pizza_type.pizza_type_id=pizzas.pizza_type_id
  group by pizza_type.category;
```

Result :

Result Grid   Filter Rows:			
	category	times	
▶	Classic	14888	
▢	Veggie	11649	
	Supreme	11987	
▢	Chicken	11050	





INTERMEDIATE

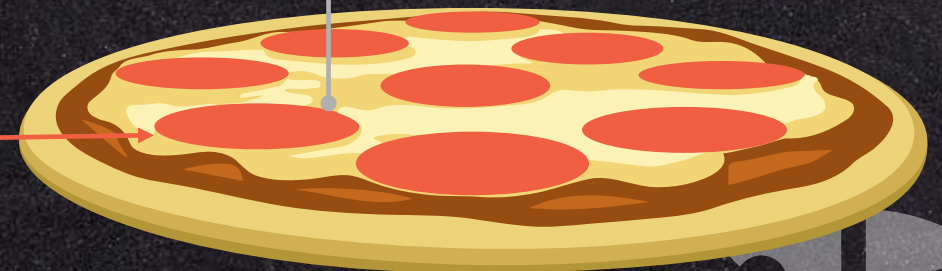
Determine the distribution of orders by hour of the day.

Solution :

```
• select count(order_id) as total_order,  
  extract(hour from order_time) as hour  
  from orders  
  group by hour  
  order by total_order desc;
```

Result :

Result Grid   Filter Rows:			
	total_order	hour	
▶	2520	12	
▢	2455	13	
	2399	18	
▢	2336	17	
	2009	19	
▢	1920	16	
	1642	20	





INTERMEDIATE

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

Solution :

```
• select category ,count(pizza_type.name) as total_pizzas  
  from pizza_type  
 group by category;
```

Result :

Result Grid   Filter Rows:			
	category	total_pizzas	
▶	Chicken	6	
▢	Classic	8	
▢	Supreme	9	
▢	Veggie	9	



INTERMEDIATE

Group the orders by date and calculate the average number of pizzas ordered per day.

Solution :

```
• select round(avg(total_order))from
  (select orders.order_date as date, sum(order_details.quantity) as total_order
   from orders join order_details on
   orders.order_id=order_details.order_id
   group by date)as total;
```

Result :

Result Grid	Filter Rows:
round(avg(total_order))	
138	





INTERMEDIATE

Determine the top 3 most ordered pizza types based on revenue.

Solution :

```
• select pizza_type.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_type on
  pizzas.pizza_type_id= pizza_type.pizza_type_id
  group by pizza_type.name
  order by total_revenue desc limit 3;
```

Result :

Result Grid   Filter Rows: <input type="text" value="Search"/>			
	name	total_revenue	
	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
▶	The California Chicken Pizza	41409.5	



ADVANCED

- Calculate the percentage contribution of each pizza type to total revenue.

Solution :

```
select pizza_type.name, sum(pizzas.price*order_details.quantity) as total_revenue,  
round(sum(pizzas.price*order_details.quantity)/ (select sum(pizzas.price*order_details.quantity) as total_revenue  
from  
dominos.pizzas  
join  
dominos.order_details on  
pizzas.pizza_id=order_details.pizza_id) * 100,2) as total_sales  
from  
pizzas  
join  
order_details on  
pizzas.pizza_id=order_details.pizza_id  
join pizza_type on  
pizzas.pizza_type_id= pizza_type.pizza_type_id  
group by pizza_type.name;
```

Result :



Result Grid				Filter Rows:	Search	Export:
	name	total_revenue	total_sales			
▶	The Hawaiian Pizza	32273.25	3.95			
▶	The Classic Deluxe Pizza	38180.5	4.67			
▶	The Five Cheese Pizza	26066.5	3.19			
▶	The Italian Supreme Pizza	33476.75	4.09			
▶	The Mexicana Pizza	26780.75	3.27			
▶	The Thai Chicken Pizza	43434.25	5.31			
▶	The Prosciutto and Arugula Pizza	24193.25	2.96			
▶	The Barbecue Chicken Pizza	42768	5.23			
▶	The Greek Pizza	28454.1000000000013	3.48			
▶	The Spinach Supreme Pizza	15277.75	1.87			
▶	The Green Garden Pizza	13955.75	1.71			


ADVANCED

- Analyze the cumulative revenue generated over time.

Solution :

```
with my_cte as (select orders.order_date, round(sum(pizzas.price*order_details.quantity)) as revenue
from pizzas
join
order_details on
pizzas.pizza_id = order_details.pizza_id
join
orders on
orders.order_id=order_details.order_id
group by order_date
order by order_date)
select order_date,revenue,sum(revenue) over(order by order_date rows unbounded preceding) as cumul_revenue
from my_cte;
```

Result :

Result Grid  Filter Rows: <input type="text" value="Search"/>			
order_date	revenue	cumul_revenue	
2015-01-02	2702	2702	
2015-01-03	2662	8108	
2015-01-04	1755	9863	
2015-01-05	2066	11929	
2015-01-06	2429	14358	
2015-01-07	2202	16560	
2015-01-08	2838	19398	
2015-01-09	2127	21525	
2015-01-10	2464	23989	
2015-01-11	1872	25861	
2015-01-12	1919	27780	
2015-01-13	2050	29830	
2015-01-14	2527	32357	



ADVANCED

- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Solution :

```
with my_cte as (select category,name,revenue, rank()over(Partition by category order by revenue desc) as ranking
from
(select pizza_type.category,pizza_type.name,
sum(pizzas.price*order_details.quantity) as revenue
from pizzas
join
order_details on
pizzas.pizza_id=order_details.pizza_id
join pizza_type on
pizzas.pizza_type_id= pizza_type.pizza_type_id
group by pizza_type.name, pizza_type.category
order by pizza_type.category) as total)
select * from my_cte
where ranking <=3;
```

Result :

Result Grid  Filter Rows: <input type="text" value="Search"/> Export: 				
	category	name	revenue	ranking
<input type="checkbox"/>	Chicken	The Thai Chicken Pizza	43434.25	1
<input type="checkbox"/>	Chicken	The Barbecue Chicken Pizza	42768	2
<input type="checkbox"/>	Chicken	The California Chicken Pizza	41409.5	3
<input type="checkbox"/>	Classic	The Classic Deluxe Pizza	38180.5	1
<input type="checkbox"/>	Classic	The Hawaiian Pizza	32273.25	2
<input type="checkbox"/>	Classic	The Pepperoni Pizza	30161.75	3
<input type="checkbox"/>	Supreme	The Spicy Italian Pizza	34831.25	1
<input type="checkbox"/>	Supreme	The Italian Supreme Pizza	33476.75	2
<input type="checkbox"/>	Supreme	The Sicilian Pizza	30940.5	3
<input type="checkbox"/>	Veggie	The Four Cheese Pizza	32265.700000000065	1
<input checked="" type="checkbox"/>	Veggie	The Mexicana Pizza	26780.75	2
<input type="checkbox"/>	Veggie	The Five Cheese Pizza	26066.5	3

A top-down view of a dark, textured surface, possibly a wooden table or a dark stone slab. In the top left corner, there are several bright red cherry tomatoes and a small sprig of green herbs. In the top right corner, a portion of a pizza is visible, topped with melted cheese, sliced tomatoes, and dark olives. In the bottom left corner, two slices of pizza are shown, also topped with cheese, tomatoes, and olives. In the bottom right corner, there is a small, round, dark-colored bowl filled with a mound of white, crumbly cheese. A wooden spoon and a wooden fork are placed horizontally in the middle right area of the image. The overall lighting is soft, creating a warm and inviting atmosphere.

THANK YOU

ANURAG BISHT