

Pizza_sales_queries

1.Questions

#view all tables of columns

```
SELECT * FROM project1.pizza_sales;
```

Result

pizza_id	order_id	pizza_name_id	quantity	order_date	order_time	unit_price	total_price	pizza_size	pizza_categ
1	1	hawaiian_m	1	01-01-2015	11:38:36	13.25	13.25	M	Classic
2	2	classic_dlx_m	1	01-01-2015	11:57:40	16	16	M	Classic
3	2	five_cheese_l	1	01-01-2015	11:57:40	18.5	18.5	L	Veggie
4	2	ital_supr_l	1	01-01-2015	11:57:40	20.75	20.75	L	Supreme
5	2	mexicana_m	1	01-01-2015	11:57:40	16	16	M	Veggie
6	2	thai_ckn_l	1	01-01-2015	11:57:40	20.75	20.75	L	Chicken
7	3	ital_supr_m	1	01-01-2015	12:12:28	16.5	16.5	M	Supreme

total_price	pizza_size	pizza_category	pizza_ingredients	pizza_name
13.25	M	Classic	Sliced Ham, Pineapple, Mozzarella Cheese	The Hawaiian Pizza
16	M	Classic	Pepperoni, Mushrooms, Red Onions, Red Pepper...	The Classic Deluxe Pizza
18.5	L	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked ...	The Five Cheese Pizza
20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...	The Italian Supreme Pizza
16	M	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Re...	The Mexicana Pizza
20.75	L	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...	The Thai Chicken Pizza
16.5	M	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...	The Italian Supreme Pizza

2.Questions

#BASIC AGGREGATION QUERIES

#Total Revenue

```
SELECT ROUND(SUM(total_price),2) AS total_revenue  
FROM project1.pizza_sales;
```

Result

total_revenue
235676.45

3.Questions

#Total Orders

```
SELECT COUNT(DISTINCT order_id) AS total_orders  
FROM project1.pizza_sales;
```

Result

total_orders
6147

4.Query

#Total Pizzas Sold

```
SELECT SUM(quantity) AS total_pizzas_sold  
FROM project1.pizza_sales;
```

Result

total_pizzas_sold
14278

5.Query

#Average Order Value (AOV)

```
SELECT  
ROUND(SUM(total_price)/COUNT(DISTINCT order_id),2) AS avg_order_value  
FROM project1.pizza_sales;
```

Result

avg_order_value
38.34

6.Query

#TOP / BOTTOM ANALYSIS

#Top 10 Best-Selling Pizzas (Quantity)

```
SELECT pizza_name, SUM(quantity) AS total_quantity  
FROM project1.pizza_sales  
GROUP BY pizza_name  
ORDER BY total_quantity DESC  
LIMIT 10;
```

Result

pizza_name	total_quantity
The Barbecue Chicken Pizza	724
The Pepperoni Pizza	709
The Hawaiian Pizza	701
The Thai Chicken Pizza	679
The California Chicken Pizza	673
The Classic Deluxe Pizza	661
The Sicilian Pizza	562
The Four Cheese Pizza	549

7.Query

#Top 10 Pizzas by Revenue

```
SELECT pizza_name, ROUND(SUM(total_price),2) AS revenue  
FROM project1.pizza_sales  
GROUP BY pizza_name  
ORDER BY revenue DESC  
LIMIT 10;
```

Result

pizza_name	revenue
The Barbecue Chicken Pizza	12771
The Thai Chicken Pizza	12393.25
The California Chicken Pizza	11768.75
The Classic Deluxe Pizza	10187.5
The Spicy Italian Pizza	9932.75
The Southwest Chicken Pizza	9835.25
The Italian Supreme Pizza	9371
The Four Cheese Pizza	9323.35

8.Query

#Least Selling Pizzas

```
SELECT pizza_name, SUM(quantity) AS total_quantity  
FROM project1.pizza_sales  
GROUP BY pizza_name  
ORDER BY total_quantity ASC  
LIMIT 10;
```

Result

pizza_name	total_quantity
The Brie Carre Pizza	139
The Mediterranean Pizza	252
The Calabrese Pizza	257
The Spinach Pesto Pizza	263
The Chicken Pesto Pizza	273
The Soppressata Pizza	278
The Spinach Supreme Pizza	281
The Green Garden Pizza	287

9.Query

#CATEGORY & SIZE ANALYSIS

#Revenue by Pizza Category

```
SELECT pizza_category, ROUND(SUM(total_price),2) AS revenue  
FROM project1.pizza_sales  
GROUP BY pizza_category  
ORDER BY revenue DESC;
```

Result

pizza_category	revenue
Classic	62535
Supreme	59761.35
Veggie	56775.6
Chicken	56604.5

10.Query

#Quantity Sold by Pizza Size

```
SELECT pizza_size, SUM(quantity) AS total_quantity  
FROM project1.pizza_sales  
GROUP BY pizza_size  
ORDER BY total_quantity DESC;
```

Result

pizza_size	total_quantity
L	5494
M	4447
S	4164
XL	163
XXL	10

11.Query

#Average Price by Pizza Size

```
SELECT pizza_size, ROUND(AVG(unit_price),2) AS avg_price  
FROM project1.pizza_sales  
GROUP BY pizza_size;
```

Result

pizza_size	avg_price
M	15.95
L	19.81
S	12.35
XL	25.5
XXL	35.95

12.Questions

#TIME-BASED QUERIES

#Daily Orders Trend

```
SELECT order_date, COUNT(DISTINCT order_id) AS total_orders  
FROM project1.pizza_sales  
GROUP BY order_date  
ORDER BY order_date;
```

Result

order_date	total_orders
01-01-2015	69
01-02-2015	87
01-03-2015	49
01-04-2015	67
02-01-2015	67
02-02-2015	63
02-03-2015	58
02-04-2015	62

13.Questions

#Monthly Revenue

```
SELECT MONTH(order_date) AS month,  
ROUND(SUM(total_price),2) AS revenue  
FROM project1.pizza_sales  
GROUP BY month  
ORDER BY month;
```

Result

month	revenue
NULL	235676.45

13.Questions

#Peak Ordering Hours

```
SELECT HOUR(order_time) AS hour,  
COUNT(DISTINCT order_id) AS total_orders  
FROM project1.pizza_sales  
GROUP BY hour  
ORDER BY total_orders DESC;
```

Result

hour	total_orders
12	746
17	711
13	688
18	681
19	566
16	549
14	475
20	472

14.Questions

#ADVANCED

#Revenue Contribution Percentage

```
SELECT pizza_category,  
ROUND(SUM(total_price)*100 /  
(SELECT SUM(total_price) FROM project1.pizza_sales),2) AS revenue_percent  
FROM project1.pizza_sales  
GROUP BY pizza_category;
```

Result

pizza_category	revenue_percent
Classic	26.53
Veggie	24.09
Supreme	25.36
Chicken	24.02

15.Queries

#Running Total Revenue (Window Function)

```
SELECT order_date,  
ROUND(SUM(SUM(total_price)) OVER (ORDER BY order_date),2) AS running_revenue  
FROM project1.pizza_sales  
GROUP BY order_date;
```

Result

order_date	running_revenue
01-01-2015	2713.85
01-02-2015	5903.05
01-03-2015	7501.6
01-04-2015	9678.45
02-01-2015	12410.35
02-02-2015	14738.95
02-03-2015	17118
02-04-2015	19665.15

16.Queries

#Rank Pizzas by Revenue

```
SELECT pizza_name,  
ROUND(SUM(total_price),2) AS revenue,  
RANK() OVER (ORDER BY SUM(total_price) DESC) AS revenue_rank  
FROM project1.pizza_sales  
GROUP BY pizza_name;
```

Result

pizza_name	revenue	revenue_rank
The Barbecue Chicken Pizza	12771	1
The Thai Chicken Pizza	12393.25	2
The California Chicken Pizza	11768.75	3
The Classic Deluxe Pizza	10187.5	4
The Spicy Italian Pizza	9932.75	5
The Southwest Chicken Pizza	9835.25	6
The Italian Supreme Pizza	9371	7
The Four Cheese Pizza	9323.35	8

17.Questions

#Orders Above Average Order Value

```
SELECT order_id, SUM(total_price) AS order_value  
FROM project1.pizza_sales  
GROUP BY order_id  
HAVING order_value >  
(SELECT AVG(total_price) FROM project1.pizza_sales);
```

Result

order_id	order_value
2	92
3	37.25
6	24.75
9	143.25
10	41
11	73.5
12	70.75
13	20.25

18.Questions

#BUSINESS INSIGHT QUERIES

#Most Profitable Size per Category

```
SELECT pizza_category, pizza_size,  
ROUND(SUM(total_price),2) AS revenue  
FROM project1.pizza_sales  
GROUP BY pizza_category, pizza_size  
ORDER BY pizza_category, revenue DESC;
```

Result

pizza_category	pizza_size	revenue
Chicken	L	29776.25
Chicken	M	18642.75
Chicken	S	8185.5
Classic	L	21039.25
Classic	S	19931
Classic	M	17048.75
Classic	XL	4156.5
Classic	XXL	359.5

19.Questions

#Ingredient Usage Count

```
SELECT pizza_ingredients, COUNT(*) AS usage_count  
FROM project1.pizza_sales  
GROUP BY pizza_ingredients  
ORDER BY usage_count DESC  
LIMIT 10;
```

Result

pizza_ingredients	usage_count
Barbecued Chicken, Red Peppers, Green Pepper...	709
Mozzarella Cheese, Pepperoni	696
Sliced Ham, Pineapple, Mozzarella Cheese	687
Chicken, Pineapple, Tomatoes, Red Peppers, T...	666
Pepperoni, Mushrooms, Red Onions, Red Pepp...	655
Chicken, Artichoke, Spinach, Garlic, Jalapeno P...	653
Coarse Sicilian Salami, Tomatoes, Green Olives, ...	544
Chicken, Tomatoes, Red Peppers, Red Onions, ...	536

20.Questions

#Weekend vs Weekday Revenue

```
SELECT  
CASE  
WHEN DAYOFWEEK(order_date) IN (1,7) THEN 'Weekend'  
ELSE 'Weekday'  
END AS day_type,  
ROUND(SUM(total_price),2) AS revenue  
FROM project1.pizza_sales  
GROUP BY day_type;
```

Result

day_type	revenue
Weekday	235676.45