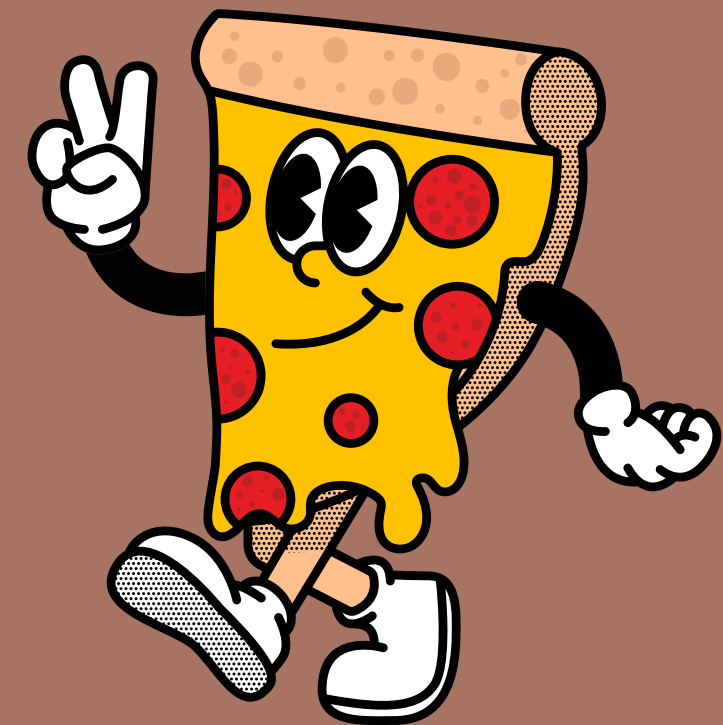# Pizza Sales SQL project

in Gitesh Deshmukh

Hello!

My name is Gitesh!

I have created this project in order to use SQL queries and to solve the SQL questions which were related to Pizza Sale.

Tables used by me.

Pizza Types

	pizza_type_id	name	category	ingredients
▶	bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
	cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
	ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms...
	ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
	southw_ckn	The Southwest Chicken Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Red Onions, ...
	thai_ckn	The Thai Chicken Pizza	Chicken	Chicken, Pineapple, Tomatoes, Red Peppers, T...
	big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...
	classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
	hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
	ital_cpcllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
	napolitana	The Napolitana Pizza	Classic	Tomatoes, Anchovies, Green Olives, Red Onion...
	pep_msh_pep	The Pepperoni, Mushroom, ...	Classic	Pepperoni, Mushrooms, Green Peppers
	pepperoni	The Pepperoni Pizza	Classic	Mozzarella Cheese, Pepperoni
	the_greek	The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garli...
	brie_carre	The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Caramelized Oni...
	calabrese	The Calabrese Pizza	Supreme	'Nduja Salami, Pancetta, Tomatoes, Red Onions...
	ital_supr	The Italian Supreme Pizza	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...

Orders

	order_id	order_date	order_time
▶	1	2015-01-01	11:38:36
	2	2015-01-01	11:57:40
	3	2015-01-01	12:12:28
	4	2015-01-01	12:16:31
	5	2015-01-01	12:21:30
	6	2015-01-01	12:29:36
	7	2015-01-01	12:50:37
	8	2015-01-01	12:51:37
	9	2015-01-01	12:52:01
	10	2015-01-01	13:00:15
	11	2015-01-01	13:02:59
	12	2015-01-01	13:04:41
	13	2015-01-01	13:11:55
	14	2015-01-01	13:14:19
	15	2015-01-01	13:33:00
	16	2015-01-01	13:34:07
	17	2015-01-01	13:53:00

Order Details

	order_details_id	order_id	pizza_id	quantity
▶	1	1	hawaiian_m	1
	2	2	classic_dlx_m	1
	3	2	five_cheese_l	1
	4	2	ital_supr_l	1
	5	2	mexicana_m	1
	6	2	thai_ckn_l	1
	7	3	ital_supr_m	1
	8	3	prsc_argla_l	1
	9	4	ital_supr_m	1
	10	5	ital_supr_m	1
	11	6	bbq_ckn_s	1
	12	6	the_greek_s	1
	13	7	spinach_supr_s	1
	14	8	spinach_supr_s	1
	15	9	classic_dlx_s	1
	16	9	green_garde...	1
	17	9	ital_cpcllo_l	1

Pizza

	pizza_id	pizza_type_id	size	price
▶	bbq_ckn_s	bbq_ckn	S	12.75
	bbq_ckn_m	bbq_ckn	M	16.75
	bbq_ckn_l	bbq_ckn	L	20.75
	cali_ckn_s	cali_ckn	S	12.75
	cali_ckn_m	cali_ckn	M	16.75
	cali_ckn_l	cali_ckn	L	20.75
	ckn_alfredo_s	ckn_alfredo	S	12.75
	ckn_alfredo_m	ckn_alfredo	M	16.75
	ckn_alfredo_l	ckn_alfredo	L	20.75
	ckn_pesto_s	ckn_pesto	S	12.75
	ckn_pesto_m	ckn_pesto	M	16.75
	ckn_pesto_l	ckn_pesto	L	20.75
	southw_ckn_s	southw_ckn	S	12.75
	southw_ckn_m	southw_ckn	M	16.75
	southw_ckn_l	southw_ckn	L	20.75
	thai_ckn_s	thai_ckn	S	12.75
	thai_ckn_m	thai_ckn	M	16.75

Retrieve the total number of orders placed.

```sql
1      -- Retrieve the total number of orders placed.
2
3 •    select count(order_id) as total_orders from orders;
```

Result Grid		Filter Rows:
	total_orders	
▶	21350	

Calculate the total revenue generated from pizza sales.

```sql
3 •    SELECT
4          ROUND(SUM(orders_details.quantity * pizzas.price), 2) AS total_sales
5      FROM
6          orders_details
7      JOIN
8          pizzas
9      ON
10         pizzas.pizza_id = orders_details.pizza_id;
```

Result Grid	🟨	🔄 Filter Rows:

	total_sales
▶	817860.05

Identify the highest-priced pizza

```sql
3 •  SELECT
4         pizza_types.name, pizzas.price
5     FROM
6         pizza_types
7             JOIN
8         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9     ORDER BY pizzas.price DESC
10    LIMIT 1;
```

	name	price
▶	The Greek Pizza	35.95

Result Grid | Filter Rows:

Identify the most common pizza size ordered

```sql
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS order_count
FROM
    pizzas
JOIN
    orders_details
ON
    pizzas.pizza_id = orders_details.pizza_id
GROUP BY
    pizzas.size
ORDER BY
    order_count DESC
```

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

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

```sql
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
JOIN
    pizzas
ON
    pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY
    pizza_types.name
ORDER BY
    quantity DESC
LIMIT 5;
```

Result Grid | Filter Rows:

name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

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

```
 3 •   SELECT
 4         pizza_types.category,
 5         SUM(orders_details.quantity) AS quantity
 6     FROM
 7         pizza_types
 8             JOIN
 9         pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10             JOIN
11         orders_details ON orders_details.pizza_id = pizzas.pizza_id
12     GROUP BY pizza_types.category
13     ORDER BY quantity DESC;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

```sql
3 •  SELECT
4        HOUR(order_time), COUNT(order_id) as order_count
5    FROM
6        orders
7    GROUP BY HOUR(order_time);
```

HOUR(order_time)	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

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

```sql
2 •    select category,count(name) from pizza_types
3      group by category;
```

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

Result Grid | Filter Rows:

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

```sql
 4 •  SELECT ROUND(AVG(quantity), 0) as avg_pizzas
 5    FROM (
 6        SELECT orders.order_date, SUM(orders_details.quantity) AS quantity
 7        FROM orders
 8        JOIN orders_details
 9        ON orders.order_id = orders_details.order_id
10        GROUP BY orders.order_date
11    ) AS order_quantity;
```

Result Grid		
	avg_pizzas	
▶	138	

Determine the top 3 most ordered pizza types based on revenue

```sql
3 •  SELECT pizza_types.name,
4         SUM(orders_details.quantity * pizzas.price) AS revenue
5     FROM pizza_types
6     JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
7     JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id
8     GROUP BY pizza_types.name
9     ORDER BY revenue DESC
10    LIMIT 3;
```

Result Grid | Filter Rows:

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

THANK YOU!

Gitesh Deshmukh