



Pizza Sales

SQL Project





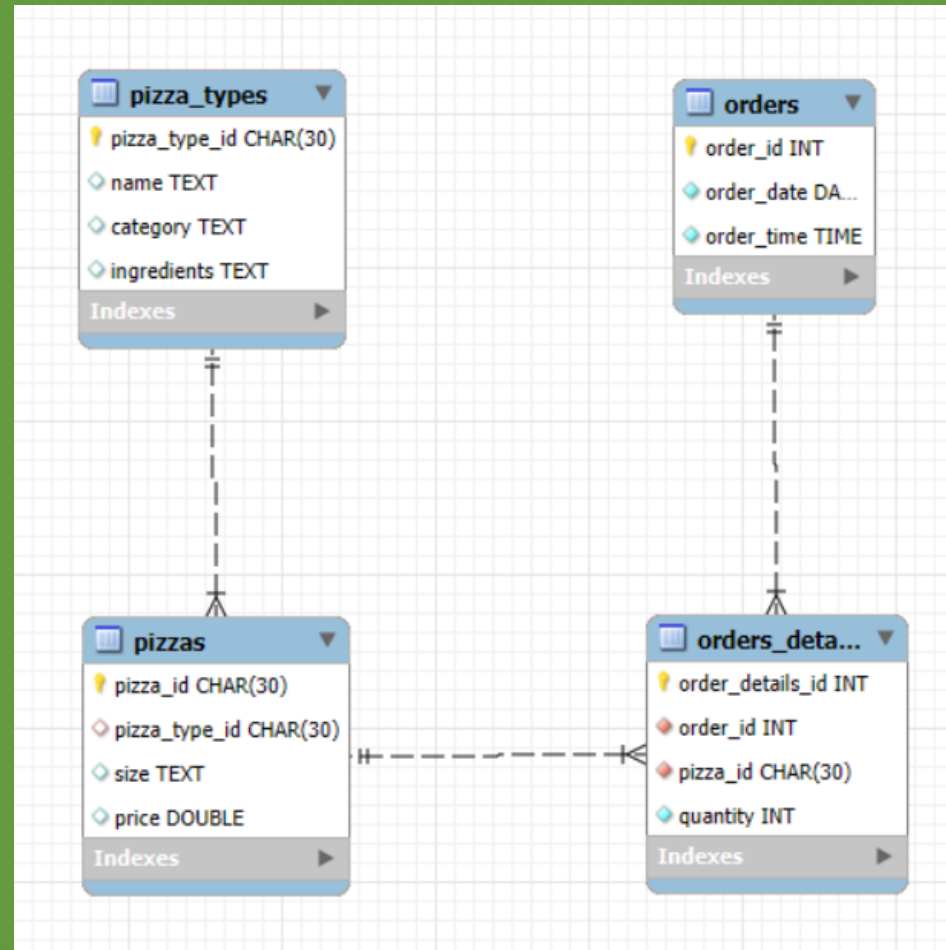
HELLO EVERYONE!

My name is Yogesh and I am sharing a project on 'Pizza Sales'. I have used SQL queries to solve questions that were related to Pizza Sales.





Schema





Database Creation

Filter objects

- pizzhut
 - Tables
 - orders
 - orders_details
 - pizza_types
 - pizzas
 - Views
 - Stored Procedures
 - Functions
- sys

Administration Schemas

Information

No object selected

```
1 • CREATE DATABASE PizzHut;
2
3 CREATE TABLE orders(
4     order_id int not null,
5     order_date date not null,
6     order_time time not null,orders
7     Primary key (order_id));
8
9
10 CREATE TABLE orders_details (
11     order_details_id INT NOT NULL,
12     order_id INT NOT NULL,
13     pizza_id TEXT NOT NULL,
14     quantity INT NOT NULL,
15     PRIMARY KEY (order_details_id)
16 );
```





Q1. Retrieve the total number of orders placed.

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

Result Grid		Filter Rows:	Export:	Wrap
	total_orders			
▶	21350			

	total_sales
▶	817860.05





Q2. Calculate the total revenue generated from pizza sales.

```
1  -- Calculate the total revenue generated from pizza sales.
2  ●  SELECT
3  ⓪  ROUND(SUM(orders_details.quantity * pizzas.price),
4      2) AS total_sales
5  FROM
6      orders_details
7      JOIN
8      pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```

	total_sales
▶	817860.05





Q3. Identify the highest-priced pizza.

```
1  -- Identify the highest-priced pizza.
2  •  SELECT
3      pizza_types.name, pizzas.price
4  FROM
5      pizza_types
6      JOIN
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8  ORDER BY pizzas.price DESC
9  LIMIT 1
```

	name	price
▶	The Greek Pizza	35.95





Q4. Identify the most common pizza size ordered.

```
1  -- Identify the most common pizza size ordered.
2
3  •  SELECT
4      pizzas.size,
5      COUNT(orders_details.order_details_id) AS order_count
6  FROM
7      pizzas
8      JOIN
9      orders_details ON pizzas.pizza_id = orders_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC;
```

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





Q5. List the top 5 most ordered pizza types along with their quantities.

```
1  -- List the top 5 most ordered pizza types along with their quantities.
2
3  •  SELECT
4      pizza_types.name, SUM(orders_details.quantity) AS quantity
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
9      JOIN
10     orders_details ON orders_details.pizza_id = pizzas.pizza_id
11  GROUP BY pizza_types.name
12  ORDER BY quantity DESC
13  LIMIT 5;
14
```

	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





Q6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
1  -- Join the necessary tables to find the total quantity of each pizza category ordered.
2
3  • SELECT
4      pizza_types.category,
5      SUM(orders_details.quantity) AS total_quantity
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizzas.pizza_type_id = pizza_types.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 total_quantity DESC;
```

	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





Q7. Determine the distribution of orders by hour of the day.

```
1  -- Determine the distribution of orders by hour of the day.  
2  
3  •  SELECT  
4      HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
5  FROM  
6      orders  
7  GROUP BY hour;
```

	hour	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





Q8. Join relevant tables to find the category-wise distribution of pizzas.

```
1  -- Join relevant tables to find the category-wise distribution of pizzas.
2
3  •  SELECT
4      category, COUNT(pizza_types.pizza_type_id) AS no_of_category
5  FROM
6      pizza_types
7  GROUP BY category;
```

	category	no_of_category
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9





Q9. Group the orders by date and calculate the average number of pizzas ordered per day.

```
1  -- Group the orders by date and calculate the average number of pizzas ordered per day
2
3  •  SELECT
4      ROUND(AVG(quantity), 0) as Quantity1
5  FROM
6      (SELECT
7          orders.order_date, SUM(orders_details.quantity) AS quantity
8      FROM
9          orders
10     JOIN orders_details ON orders_details.order_id = orders.order_id
11     GROUP BY orders.order_date) AS order_quantity;
```

	Quantity1
▶	138





Q10. Determine the top 3 most ordered pizza types based on revenue.

```
1  -- Determine the top 3 most ordered pizza types based on revenue.
2
3  •  SELECT
4      pizza_types.name AS Pizza_name,
5      SUM(orders_details.quantity * pizzas.price) AS Revenue
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
10     JOIN
11     orders_details ON orders_details.pizza_id = pizzas.pizza_id
12 GROUP BY Pizza_name
13 ORDER BY Revenue DESC
14 LIMIT 3;
```

	Pizza_name	Revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5





Q11. Calculate the percentage contribution of each pizza type to total revenue.

```
1  -- Calculate the percentage contribution of each pizza type to total revenue.
2
3  •  SELECT
4      pizza_types.category,
5      ROUND((SUM(orders_details.quantity * pizzas.price) / (SELECT
6          ROUND(SUM(orders_details.quantity * pizzas.price),
7              2) AS total_sales
8          FROM
9              orders_details
10             JOIN
11                 pizzas ON pizzas.pizza_id = orders_details.pizza_id)) * 100,
12          2) AS Total_Revenue
13  FROM
14      pizza_types
15      JOIN
16      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
17      JOIN
18      orders_details ON pizzas.pizza_id = orders_details.pizza_id
19  GROUP BY pizza_types.category
20  ORDER BY Total_Revenue DESC;
```

Result Grid			Filter Rows:
	category	Total_Revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	





Q12. Analyze the cumulative revenue generated over time.

```
1  -- Analyze the cumulative revenue generated over time.
2
3  • select order_date,
4     sum(revenue) over(order by order_date) as cum_revenue
5  from
6  (select orders.order_date,
7     sum(orders_details.quantity * pizzas.price) as revenue
8  from orders_details join pizzas
9   on orders_details.pizza_id = pizzas.pizza_id
10 join orders
11  on orders.order_id = orders_details.order_id
12  group by orders.order_date) as sales;
```

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3000000000003
	2015-01-14	32358.7000000000004
	2015-01-15	34343.500000000001





Q13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
1  -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
2
3  • select name, revenue from
4  (select category, name, revenue,
5   rank() over(partition by category order by revenue desc) as rn
6   from
7   (select pizza_types.category, pizza_types.name,
8    sum(orders_details.quantity * pizzas.price) as revenue
9    from pizza_types join pizzas
10   on pizza_types.pizza_type_id = pizzas.pizza_type_id
11   join orders_details
12  on orders_details.pizza_id = pizzas.pizza_id
13   group by pizza_types.category, pizza_types.name) as a) as b
14  where rn <= 3;
```

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.700000000554
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5





Thank You!

