



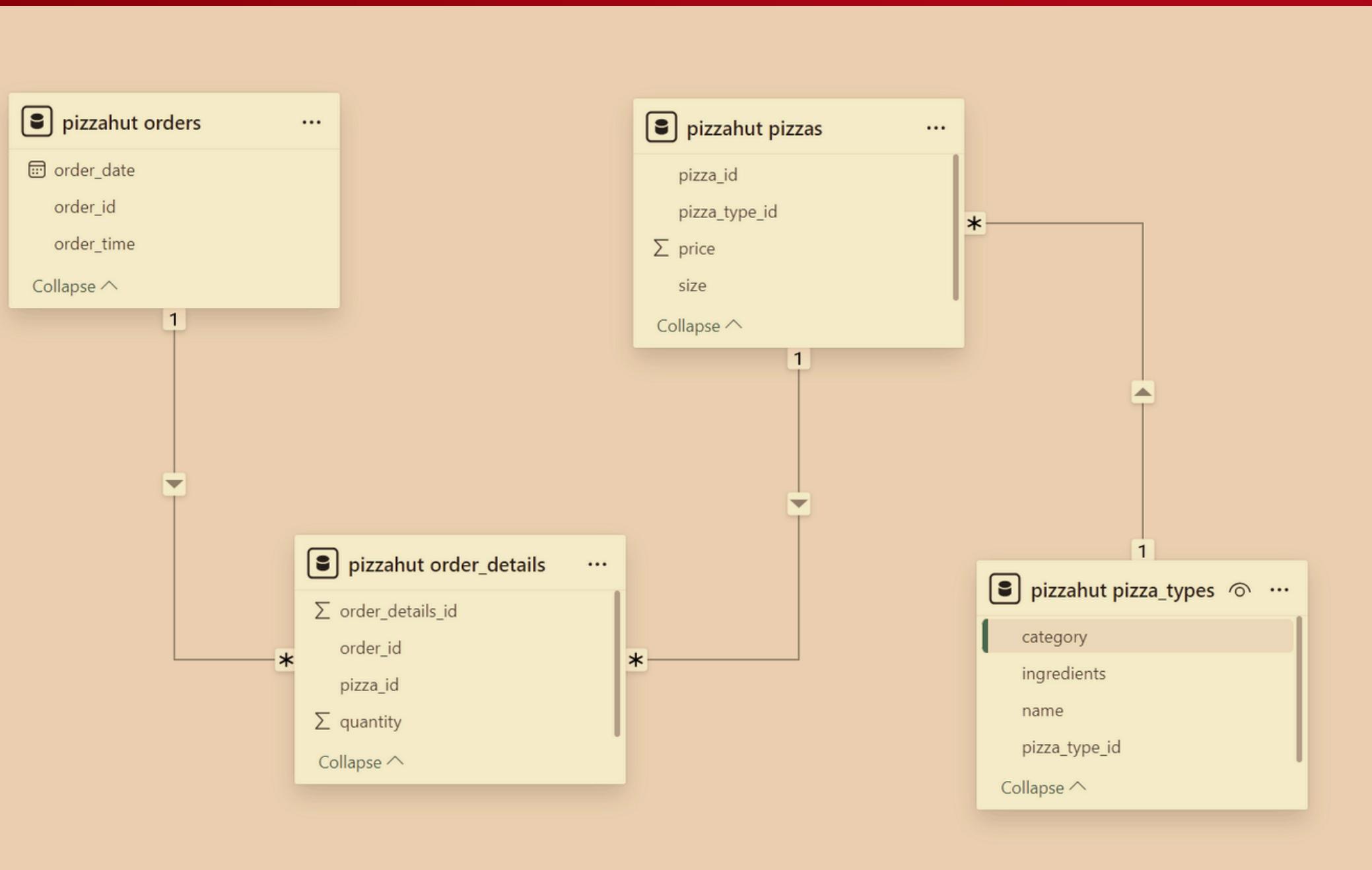
PIZZAHUT

# PROJECT ON PIZZA SALES





## ER DIAGRAM





## INTRODUCTION

Hello my name is Kripashankar Gupta . In this project I have utilized my SQL queries to solve the Questions which are related to Pizza sales.



Q.1 RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT

COUNT(order\_id)

FROM

orders;

COUNT(order\_id)

21350



## Q.2 CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

```
ROUND(SUM(order_details.quantity * pizzas.price),  
2) AS total_sales
```

FROM

```
order_details
```

JOIN

```
pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid

total_sales
817860.05



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### Q.3 IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95



Q.4 IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

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



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

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS 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 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



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

```
SELECT  
    pizza_types.category,  
    SUM(order_details.quantity) AS 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 quantity DESC;
```

Result Grid		
	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





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## Q.7 DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

**SELECT**

**HOUR(order\_time) AS Hour, COUNT(order\_id) AS Order\_Count**

**FROM**

**orders**

**GROUP BY HOUR(order\_time);**

	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



Q.8 JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT  
    category, COUNT(name)  
FROM  
    pizza_types  
GROUP BY category;
```

Result Grid | Filter Rows

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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Q.9 GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

**SELECT**

ROUND(AVG(quantity), 0) AS Avg\_pizza\_order\_per\_day

**FROM**

(**SELECT**

orders.order\_date, SUM(order\_details.quantity) AS quantity

**FROM**

orders

**JOIN** order\_details **ON** orders.order\_id = order\_details.order\_id

**GROUP BY** orders.order\_date) AS order\_quantity;

Result Grid	
	Avg_pizza_order_per_day
▶	138





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Q.10.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



## Q.11.CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL

```

> SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
        2) AS total_sales
    )
    FROM
        order_details
        JOIN
            pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) AS revenue
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 revenue DESC;
  
```

**Result Grid** | Filter

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



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## Q.12.ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,  
sum(revenue) over(order by order_date) as cum_revenue  
from  
(select orders.order_date,  
sum(order_details.quantity*pizzas.price) AS 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.order_date) as sales;
```

Result Grid		
	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	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





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Q.13.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select name,revenue from(
  select category,name ,revenue,rank()over(partition by category order by
  revenue desc) as rn
  from
  (select pizza_types.category,pizza_types.name,
  sum((order_details.quantity)*pizzas.price) as revenue
  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, pizza_types.name) as A) as B
  where rn <=3;
```

Result Grid	
	name
▶	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





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# THANK YOU!

