



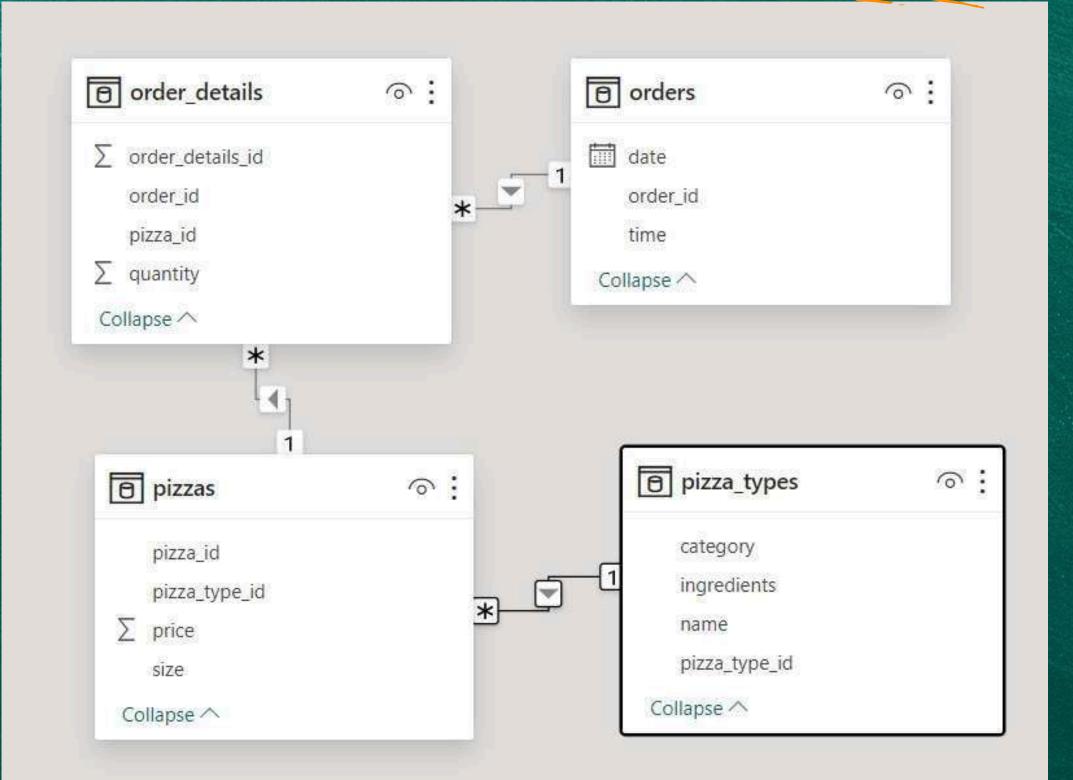


This project looks at pizza sales numbers to find out how well the restaurant is doing and what trends there are. It wants to use this information to make smarter decisions and plan better for the future.



** Data Model shows how all the tables are connencted **









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

```
select category, name, revenue from

(select category, name, revenue,
rank() over (partition by category order by revenue desc) as rn from
(select category, name, sum(c.quantity *b.price) as revenue
from pizza_types as a
join pizzas as b
on a.pizza_type_id = b.pizza_type_id
join order_details as c
on b.pizza_id = c.pizza_id
category name
```

group by category, name) as a) as b

where rn <=3;



2. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

- select order_date, sum(revenue) over (order by order_date) as Cum_revenue
 from
 - (select order_date,
 sum(quantity*price) as Revenue from orders as a
 join order_details as b
 on a.order_id = b.order_id
 join
 pizzas as c
 on b.pizza_id = c.pizza_id

group by order_date) as sales

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	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343,50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978 60000000000





3. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
⇒ select category, (sum(c.quantity *b.price)/ (SELECT)
      ROUND(SUM((quantity * price)), 2) AS Total_revenue
  FROM
      pizzas AS p
          JOIN
      order_details AS o ON p.pizza_id = o.pizza_id) )*100 as Revenue
   from pizza_types as a
  join pizzas as b
  on a.pizza_type_id = b.pizza_type_id
  join order_details as c
  on b.pizza_id = c.pizza_id
  group by category
  order by revenue
```



category	Revenue
Veggie	23.682590927384577
Chicken	23.955137556847287
Supreme	25.45631126009862
Classic	26.90596025566967
	Veggie Chicken Supreme



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

```
select name, sum(c.quantity *b.price) as revenue
from pizza_types as a
join pizzas as b
on a.pizza_type_id = b.pizza_type_id
join order_details as c
on b.pizza_id = c.pizza_id
group by name
order by revenue desc
limit 3
```

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





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

```
select round(avg(quantity),0) as Avg_pizza_ordered_perday
from (
select order_date as Days, sum(quantity) as quantity from orders as a
join order_details as b
on a.order_id = b.order_id
group by order_date
) as X
```

Avg_pizza_ordered_perday

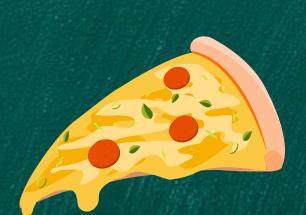




6. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

select category, count(pizza_type_id) as Counts from pizza_types
group by category

category	count
Chicken	6
Classic	8
Supreme	9
Veggie	9







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 by hour;

hour	order_count
9	1
10	8
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





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

```
SELECT category, sum(quantity) as Quantity
FROM

    order_details AS a
        JOIN
    pizzas AS b ON a.pizza_id = b.pizza_id
        JOIN
    pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
    group by category
    order by quantity desc
```

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050





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

```
SELECT
   name, SUM(quantity) AS Quantity
FROM
   order_details AS a
        JOIN
   pizzas AS b ON a.pizza_id = b.pizza_id
        JOIN
   pizza_types AS c ON b.pizza_type_id = c.pizza_type_id
GROUP BY name
ORDER BY quantity DESC
LIMIT 5
```

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







10. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
p.size, COUNT(order_details_id) AS Counts

FROM

pizzas AS p

JOIN

order_details AS o ON p.pizza_id = o.pizza_id

GROUP BY size

ORDER BY counts DESC;
```

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





11. IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT

a.price, b.name

FROM

pizzas AS a

JOIN

pizza_types AS b ON a.pizza_type_id = b.pizza_type_id

ORDER BY price DESC

LIMIT 1
```

name	price
The Greek Pizza	35.95





12. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
   ROUND(SUM((quantity * price)), 2) AS Total_revenue
FROM
   pizzas AS p
        JOIN
   order_details AS o ON p.pizza_id = o.pizza_id;
```

total_revenue







13. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

select count(order_id) as Total_orders
from orders;

	Total_orders
>	21350





By Anshul Tripathi