

# WELCOME TO PIZZA SALES PROJECT



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# CREATE A PIZZA APP WITH SQL SERVER

PROJECT TITLE : COMPREHENSIVE ANALYSIS OF  
PIZZA SALES TRENDS.

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# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
Select count(order_id) as total_orders from orders;
```

	total_orders
1	21350



# - 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;
```

total_sales
817860.05



# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
select top 1 pizza_types.name,pizzas.price  
  from pizzas join pizza_types on  
pizza_types.pizza_type_id=pizzas.pizza_type_id  
order by pizzas.price desc ;
```

Results    Messages

	name	price
1	The Greek Pizza	35.95



# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select pizzas.size ,count(order_details.order_details_id)as order_count  
from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id  
group by pizzas.size order by order_count desc;
```

Results

	size	order_count
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28



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

```
select top 5 pizza_types.name,sum(order_details.quantity)
as num_quantity from
pizza_types join pizzas on
pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details on
pizzas.pizza_id=order_details.pizza_id
group by pizza_types.name order by
num_quantity desc;
```

Results    Messages

	name	num_quantity
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	the Italian	2419
5	The Pepperoni Pizza	2418



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

```
Select pizza_types.category,sum(order_details.quantity) as total_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 total_quantity desc;
```

	category	total_quantity
1	Classic	13450
2	Supreme	11987
3	Veggie	10668
4	Chicken	8679
5	Chicken Pizza	2371
6	Capocollo Pizza	1438
7	Vegetables Pizza	981



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

```
select datepart(hour,order_time) as hours_,  
| count(order_id)as order_count  
from orders group by datepart(hour,order_time)  
order by order_count desc;
```

	hours_	order_count
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009
6	16	1920
7	20	1642
8	14	1472
9	15	1468
10	11	1231
11	21	1198
12	22	663
13	23	28
14	10	8
15	9	1



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

```
select pizza_types.category, count(name)as count_pizza_name  
from pizza_types  
group by pizza_types.category  
order by count_pizza_name desc ;
```

	category	count_pizza_name
1	Supreme	9
2	Veggie	8
3	Classic	7
4	Chicken	5
5	Chicken Pizza	1
6	Capocollo Pizza	1
7	Vegetables Pizza	1



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

```
select round(avg(quantity),0) as avg_pizza_perday 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 date_quant
```

Results    Messages

	avg_pizza_perday
1	138



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

```
select top 3 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
```

	name	revenue
1	The Thai	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5



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

```
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;
```

	category	revenue
1	Supreme	25.46
2	Classic	23.84
3	Veggie	21.72
4	Chicken	18.64
5	Chicken Pizza	5.31
6	Capocollo Pizza	3.07
7	Vegetables Pizza	1.96



# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,sum(revenue) over (order by order_date) cum_revenue  
from (select orders.order_date,  
sum(order_details.quantity*pizzas.price) as revenue  
from order_details join pizzas on pizzas.pizza_id=order_details.pizza_id  
join orders on order_details.order_id=orders.order_id  
group by orders.order_date) as sales;
```

	order_date	cum_revenue
1	2015-01-01	2713.85
2	2015-01-02	5445.75
3	2015-01-03	8108.15
4	2015-01-04	9863.6
5	2015-01-05	11929.55
6	2015-01-06	14358.5
7	2015-01-07	16560.7
8	2015-01-08	19399.05
9	2015-01-09	21526.4
10	2015-01-10	23990.35

11	2015-01-11	25862.65
12	2015-01-12	27781.7
13	2015-01-13	29831.3
14	2015-01-14	32358.7
15	2015-01-15	34343.5
16	2015-01-16	36937.65
17	2015-01-17	39001.75
18	2015-01-18	40978.6
19	2015-01-19	43365.75
20	2015-01-20	45763.65

21	2015-01-21	47804.2
22	2015-01-22	50300.9
23	2015-01-23	52724.6
24	2015-01-24	55013.85
25	2015-01-25	56631.4
26	2015-01-26	58515.8
27	2015-01-27	61043.85
28	2015-01-28	63059.85
29	2015-01-29	65105.15
30	2015-01-30	67375.45



# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATE

```
select name , revenue from (select category ,name , revenue,
rank() over (partition by category order by revenue)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;
```

	name	revenue
1	the Italian	25094
2	The Chicken Pesto Pizza	16701.75
3	The Chicken Alfredo Pizza	16900.25
4	The Southwest Chicken Pizza	34705.75
5	The Thai	43434.25
6	The Pepperoni, Mushroom, and Peppers Pizza	18834.5



# MY CONTACTS -



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**THANK YOU  
FOR ATTENTION**

