

PIZZA SALES ANALYSIS USING SQL





RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED ?

```
select  
    count(order_id) as total_order  
from  
    orders
```

	total_order
1	21350





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES ?

```
select
    round(sum(order_details.quantity * pizzas.price),2) as Total_Revenue
from
    order_details
join
    pizzas
on order_details.pizza_id = pizzas.pizza_id;
```

Total_Revenue

817860.05



IDENTIFY THE HIGHEST PRICED PIZZA ?

```
select
    top(1) pizza_types.name, round(pizzas.price,2)
from
    pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc
```

	name	(No column name)
1	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED ?

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

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





LIST THE TOP 5 MOST ORDERED PIZZA TYPE ALONG WITH THEIR QUANTITY ?

```
select top(5) 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
```

	name	quantity
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371



JOIN THE NACCESSARY TABLE 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
```

	category	quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050





DETERMINE THE DISTRIBUTION OF ORDER BY HOUR OF THE DAY ?

```
SELECT
    DATEPART(HOUR, time) AS Hour,
    COUNT(order_id) AS TotalOrders
FROM
    Orders
GROUP BY
    DATEPART(HOUR, time)
ORDER BY
    Hour;
```

Hour	TotalOrders
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





JOIN THE RELEVANT TABLE TO FIND CATEGORY WISE DISTRIBUTION OF PIZZA ?

```
select category, count(name) as Name  
from pizza_types group by category
```

category	Name
Chicken	6
Classic	8
Supreme	9
Veggie	9



GROUP THE ORDER BY DATE AND CALCULATE THE AVERAGE
NUMBER OF PIZZAZ ORDER PER DAY ?

```
select
    avg(quantity) as avg_pizza_order_per_day
from
    (select orders.date,
        sum(order_details.quantity) as quantity
    from
        orders join order_details
    on orders.order_id = order_details.order_id
    group by orders.date) as order_quantity
```

avg_pizza_order_per_day
138



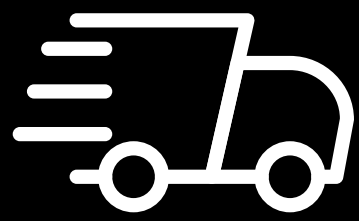


DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPE BASE ON REVENUE ?

```
select top(3) 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 pizzas.pizza_id = order_details.pizza_id  
group by pizza_types.name order by revenue desc
```

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





ANALYZED THE CUMULATIVE REVENUE GENERATED OVER TIME ?

```
select date, sum(revenue) over(order by date) as cum_revenue
from
(select orders.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.date) as sales
```



date	cum_revenue
2015-01-01	2713.85000228882
2015-01-02	5445.7500038147
2015-01-03	8108.15000724792
2015-01-04	9863.60000801086
2015-01-05	11929.5500087738
2015-01-06	14358.5000114441
2015-01-07	16560.700012207
2015-01-08	19399.0500183105
2015-01-09	21526.4000225067
2015-01-10	23990.350025177
2015-01-11	25862.6500263214
2015-01-12	27781.7000274658
2015-01-13	29831.3000278473

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPE BASE ON REVENUE FOR EACH PIZZA CATEGORY ?

```
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
```

	category	name	revenue	rn
1	Chicken	The Thai Chicken Pizza	43434.25	1
2	Chicken	The Barbecue Chicken Pizza	42768	2
3	Chicken	The California Chicken Pizza	41409.5	3
4	Chicken	The Southwest Chicken Pizza	34705.75	4
5	Chicken	The Chicken Alfredo Pizza	16900.25	5
6	Chicken	The Chicken Pesto Pizza	16701.75	6
7	Classic	The Classic Deluxe Pizza	38180.5	1
8	Classic	The Hawaiian Pizza	32273.25	2
9	Classic	The Pepperoni Pizza	30161.75	3
10	Classic	The Greek Pizza	28454.1000213623	4
11	Classic	The Italian Capocollo Pizza	25094	5
12	Classic	The Napolitana Pizza	24087	6
13	Classic	The Big Meat Pizza	22968	7
14	Classic	The Pepperoni, Mushroom, and Peppers Pizza	18834.5	8
15	Supreme	The Spicy Italian Pizza	34831.25	1
16	Supreme	The Italian Supreme Pizza	33476.75	2



CREATED BY MANISH

THANK YOU!

