



INTRODUCTION

HELLO EVERYONE,
THIS IS MY SQL PROJECT ON PIZZA SALES.
TODAY,I'LL BE SHARING INSIGHTS GATHERING
FROM ANALYZING SALES DATA OF A PIZZA
BUSINESS USING SQL QUERIES.
LET;'S DIVE INTO THE DETAILS!



BASIC QUERIES





RETRIEVE THE TOTAL NO. OF ORDER PLACED

-- Retrieve the total number of orders placed--

select count(order_id) as total_order from orders;

total_orders

14912





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
#Calculate the total revenue generated from pizza sales.
select
(order_details.quantity " pizzas.price) as total_sales
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id;
```

total sales

125853.0000000000036





IDENTIFY HIGHEST PRICE 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;
```

name price
The Greek Pizza 35.95





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

#identity the most common pizza size ordered
select quantity, count(order_details_id)
from order_details group by quantity;

quantity	count(order_details_id)
0	1
1	7367
2	127
3	5

select pizzas.size,count(order_details_id)
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size;

size count(order_details_id)	
L	2882
M	2313
S	2217
size	1
XL	82
XXL	5



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

```
#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;
```

name	quantity v 1
The Pepperoni Pizza	416
The Barbecue Chicken Pizza	384
The California Chicken Pizza	379
The Hawaiian Pizza	356
The Classic Deluxe Pizza	345





INTERMEDIATE QUERIES





JOIN THE NECCESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
#JOIN THE NECCESSARY TABLES TO FIND THE TOTAL QUANTITY TO 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 on order_details.pizza_id = pizzas.pizza_id group by pizza_types.category desc;
```

category	quantity
Veggie	1816
Supreme	1871
Classic	2271
Chicken	1678
category	0





DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

#Determine the distribution of orders by hour of the day
select hour(order_time) ,count(order_id)from orders
group by hour(order_time);

hour(order_time)	count(order_id)
23	20
22	457
21	835
20	1132
19	1389
18	1684
17	1654
16	1343
15	1032
14	1079
13	1680
12	1730
11	870
10	6
0	1





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

#JOIN RELEVENT TABLES TO FING THE CATEGORY-WISE DISTRIBUTION OF PIZZAS select category, count(name) from pizza_types group by category;

category	count(name)
category	1
Chicken	6
Classic	8
Supreme	9
Veggie	9



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NO OF PIZZAS ORDERED PER DAY

#GROUP THE ORDER BY DATE AND

#CALCULATE THE AVERAGE NO OF PIZZAS ORDERED PER DAY
select round(avg(quantity),0) as Average from
(select orders.order_date,sum(quantity) as quantity
from orders join order_details
on orders.order_id = order_details.order_id
group by orders.order_date) as order_quantity;

Average

134



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
#DETERMINE THE TOP3 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 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 revenue

DESC

limit 3;
```

name	revenue = 1
The Barbecue Chicken Pizza	6828
The California Chicken Pizza	6540.25
The Thai Chicken Pizza	6274





ADVANCED QUERIES



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL

REVENUE

category	revenue	y 1
Classic		26.65
Supreme		25.67
Veggie		24.07
Chicken		23.61
category		0.00





ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

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

order_date	cum_revenue
0000-00-00	0
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
2015-01-08	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	25882.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343,500000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.6000000000006
2015-01-19	43365.75000000001
2015-01-20	45763.65000000001
2015-01-21	47804.20000000001
2015-01-22	50300.90000000001
2015-01-23	52724.8000000000006
2015-01-24	55013.850000000000





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

#Determine the top3 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;

name	revenue
The California Chicken Pizza	6540.25
The Thai Chicken Pizza	6274
The Classic Deluxe Pizza	5382
The Pepperoni Pizza	5205.5
The Hawaiian Pizza	4700
The Italian Supreme Pizza	5278
The Sicilian Pizza	5080.75
The Spicy Italian Pizza	5018.25
The Four Cheese Pizza	4958.549999999983
The Five Cheese Pizza	4366
The Vegetables + Vegetables Pizza	4271.5



