

SQL PROJECT ON PIZZA SALES

Hi, my name is Shaifali
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In this project, I have utilized my
knowledge of SQL to solve queries
for pizza sales data



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

	total_orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
    ROUND(SUM(pizzas.price * orders_details.quantity),  
        2) AS Total_Revenue  
FROM  
    pizzas  
    JOIN  
    orders_details ON pizzas.pizza_id = orders_details.pizza_id;
```

Result Grid			
	Total_Revenue		
	817860.05		

IDENTIFY THE HIGHEST-PRICED PIZZA.

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

Result Grid | Filter Rows:

	price	name
▶	35.95	The Greek Pizza

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

SELECT

```
pizzas.size,  
COUNT(orders_details.order_details_id) AS order_count
```

FROM

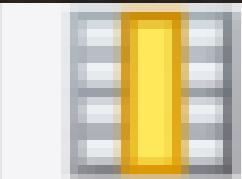
```
pizzas  
JOIN  
orders_details ON pizzas.pizza_id = orders_details.pizza_id
```

GROUP BY pizzas.size

ORDER BY COUNT(orders_details.order_details_id) DESC

LIMIT 1;

Result Grid



AI

size	order_count
L	18526

size	order_count
L	18526

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

```
SELECT pizza_types.name, SUM(orders_details.quantity)
FROM pizzas
    JOIN pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY SUM(orders_details.quantity) DESC
LIMIT 5;
```

Result Grid | Filter Rows: Export:

	name	SUM(orders_details.quantity)
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

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

SELECT

```
    pizza_types.category,  
    SUM(orders_details.quantity) AS total_quantity  
FROM  
    pizzas  
        JOIN  
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category;
```

Result Grid | Filter R

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

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)  
ORDER BY Hour;
```

	Hour	Order_co
▶	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2200

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

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

SELECT

```
ROUND(AVG(quantity), 0) AS average_order
```

FROM

```
(SELECT
```

```
    orders.order_date, SUM(orders_details.quantity) AS quantity
```

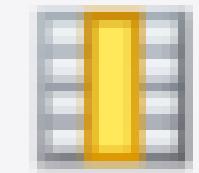
```
FROM
```

```
    orders
```

```
JOIN orders_details ON orders.order_id = orders_details.order_id
```

```
GROUP BY orders.order_date) AS order_quantity;
```

Result Grid



average_order
138

138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

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

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

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
SELECT
    pizza_types.category,
    ROUND((SUM(pizzas.price * orders_details.quantity) /
        (SELECT SUM(pizzas.price * orders_details.quantity)
            FROM pizzas
            JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id)
        ) * 100, 2) AS revenue_percentage
    from
    pizzas
    JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id
    JOIN pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY
    pizza_types.category
ORDER BY
    revenue_percentage DESC;
```

Result Grid | Filter Rows:

	category	revenue_percentage
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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(orders_details.quantity*pizzas.price) as revenue  
from orders_details join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id= orders_details.order_id  
group by orders.order_date) as sales;
```

Result Grid		
	order_date	cum_revenue
▶	2015-01-01	2713.8500000000003
	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	232000.25000000003

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 pizza_types.category, pizza_types.name,
           sum(orders_details.quantity * pizzas.price) as revenue
        from pizza_types join pizzas
          on pizza_types.pizza_type_id = pizzas.pizza_type_id
         join orders_details
          on orders_details.pizza_id = pizzas.pizza_id
   group by pizza_types.category, pizza_types.name) as a) as b
  where rn<=3;
```

Result Grid | Filter Rows: Export:

	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Mozzarella	The Four Cheese Pizza	22265.700000000005