

A SQL
PROJECT

**PIZZA HUT
ANALYSIS**



1. Identify the highest-priced 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;
```

Result Grid | Filter Rows

	name	price
»	The Greek Pizza	35.95

2. Identify the most common pizza size ordered.



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

Result Grid | Filter Row

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

3. 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;
```

Result Grid | Filter Rows:

	name	quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

4. Join the necessary tables 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;
```

Result Grid |

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

5.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);

Result Grid |

hour	order_count
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



6.Join relevant tables to find the category-wise distribution of pizzas

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

Result Grid |   Filter R...

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

7. Calculate the percentage contribution of each pizza type to total revenue.

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

	category	RevenuePercentage
▶	Veggie	23.68
	Chicken	23.96
	Supreme	25.46
	Classic	26.91

8.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 ;
```

	order_date	cum_revenue
▶	2015-01-01	2713.8500000000004
	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

9.Determine the top 3 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(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 ;
```

	name	revenue
▶	The California Chicken Pizza	41409.5
	The Southwest Chicken Pizza	34705.75
	The Chicken Alfredo Pizza	16900.25
	The Chicken Pesto Pizza	16701.75
	The Pepperoni Pizza	30161.75
	The Greek Pizza	28454.10000000001
	The Italian Capocollo Pizza	25094
	The Napolitana Pizza	24087
	The Big Meat Pizza	22968
	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
	The Sicilian Pizza	30940.5
	The Pepper Salami Pizza	25529
	The Prosciutto and Arugula Pizza	24193.25
	The Soppressata Pizza	16425.75
	The Calabrese Pizza	15934.25
	The Spinach Supreme Pizza	15277.75
	The Brie Carre Pizza	11588.4999999999

THANK YOU