



Pizza Sales Data analysis





```
1  -- Retrive the total number of order placed.  
2  • select count(order_id) as total_orders from orders;
```

	total_orders
▶	21350





```
-- Calculate the total revenue generated from pizza sales.
```

```
select  
round(sum(orders_details.quantity * pizzas.price),2) as total_sales  
from orders_details join pizzas  
on pizzas.pizza_id = orders_details.pizza_id
```

	total_sales
▶	817860.05





```
-- 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;
```

	name	price
►	The Greek Pizza	35.95





-- Identify the most common pizza size ordered.

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

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





```
-- List the top 5 most ordered pizza types along with their quantities.
```

```
select pizza_types.name,  
sum(orders_details.quantity) as quantity  
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.name order by quantity desc limit 5;
```

	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





```
-- Join the necessary tables to find the total quantity of each pizza category ordered.
```

```
select pizza_types.category,  
sum(orders_details.quantity) as quantity  
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 quantity desc ;
```

	category	quantity
►	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





```
-- Determine the distribution of orders by hour of the day
```

```
select hour(order_time), count(order_id) as order_count from orders  
group by hour(order_time);
```

	hour(order_time)	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
	10	8
	9	1





```
-- Join relevant tables to find the category-wise distribution of pizzas.  
select category , count(name) from pizza_types  
group by category;
```

	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 avg(quantity) 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 ;
```

	avg(quantity)
▶	138.4749





```
-- Determine the top 3 most ordered pizza types based on revenue.
```

```
select pizza_types.name,  
sum(orders_details.quantity * pizzas.price) as revenue  
from pizza_types join pizzas  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
join orders_details  
on orders_details.pizza_id = pizzas.pizza_id  
group by pizza_types.name order by revenue desc limit 3;
```

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





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

```
select pizza_types.category,  
(sum(orders_details.quantity*pizzas.price) / (select  
round(sum(orders_details.quantity * pizzas.price),2) as total_sales  
from orders_details join pizzas on pizzas.pizza_id = orders_details.pizza_id) )*100 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 order by revenue desc;
```

	category	revenue
▶	Classic	26.90596025566967
	Supreme	25.45631126009862
	Chicken	23.955137556847287
	Veggie	23.682590927384577





```
-- 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	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3000000000003
	2015-01-14	32358.7000000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001





```
-- 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 Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Hawaiian Pizza	32273.25
	The Pepperoni Pizza	30161.75
	The Spicy Italian Pizza	34831.25
	The Italian Supreme Pizza	33476.75
	The Sicilian Pizza	30940.5
	The Four Cheese Pizza	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5





Thank you !

