



PIZZAHUT SALES ANALYSIS USING SQL

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RETRIVE THE TOTAL NUMBER OF ORDERS PLACED

SELECT

 COUNT(order_id) AS total_orders

FROM

 orders;

QUERY

RESULT

	total_orders
▶	21350





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

SELECT

```
ROUND(SUM(order_details.quantity * pizzas.price),  
      2) AS total_sales
```

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id;

QUERY

RESULT

	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;

QUERY

RESULT

	name	price
▶	The Greek Pizza	35.95





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;

QUERY

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

RESULT





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;

QUERY

	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

RESULT





JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH 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;
```

QUERY

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

RESULT





DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

QUERY

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

RESULT

	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
	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;
```

QUERY

RESULT

	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 avg_pizza_ordered_per_day

FROM

(SELECT

orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS order_quantity;

QUERY

RESULT

	avg_pizza_ordered_per_day
▶	138





DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPR 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;
```

QUERY

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

RESULT





CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE OF TOTAL REVENUE

SELECT

```
    pizza_types.category,  
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT  
        ROUND(SUM(order_details.quantity * pizzas.price),  
            2) AS total_sales  
        FROM  
            order_details  
        JOIN  
            pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,  
        2) 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

ORDER BY revenue DESC;

QUERY

RESULT

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68





ANALYZE THE CUMMULATIVE REVENUE GENERATED OVER TIME

```
select order_date,  
round(sum(revenue) over(order by order_date),2) 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;
```

QUERY

	order_date	cum_revenue
▶	2015-01-01	2713.85
	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	23990.35

RESULT





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

QUERY

```
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;
```





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

RESULT

	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

