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-- Pizza Place Sales SQL Project --


--> 1. How many orders do we have each day?


-- How many orders do we have each day?
WITH cte AS (SELECT DATE, Count(order_id) AS order_per_day
FROM "orders"
GROUP BY 1)
SELECT Round(Avg(order_per_day), 0) AS mean_of_orders,
Percentile_cont(.5) within GROUP (ORDER BY order_per_day) AS median_of_orders,
MODE() within GROUP (ORDER BY order_per_day) AS mode_of_orders
FROM cte;


--> 2. Are there any peak hours?


-- Are there any peak hours?
select extract(hour from time::time) as peak_hour,
sum(quantity) as total_qty_ordered
from "orders" join "order_details" using(order_id)
group by 1
order by 2 desc
limit 3;


--> 3. How many pizzas are typically in an order?


-- How many pizzas are typically in an order?
with CTE as (select order_id, sum(quantity) as qty_per_order
from "order_details"
group by 1)
select mode() within group (order by qty_per_order) as typical_order_qty
from CTE;


--> 4. Do we have any bestsellers?


-- Do we have any bestsellers?
select name as pizza_name, sum(quantity) as total_qty_ordered
from "order_details" join "pizzas" using(pizza_id) join "pizza_types" using(pizza_type_id)
group by 1
order by 2 desc
limit 1;


--> 5. How much money did we make this year?


-- How much money did we make this year?
select concat(round(sum(quantity*price)/1000), ' K') as total_sales
from "order_details" join "pizzas" using(pizza_id);


--> 6. Can we indentify any seasonality in the sales?


-- Can we indentify any seasonality in the sales?
select concat('Q',extract(quarter from date)) as season, round(sum(quantity*price)::decimal,0)
as total_sales
from "orders" join "order_details" using(order_id) join "pizzas" using(pizza_id)
group by 1
order by 2 desc;


--> 7. Are there any pizzas we should take off the menu?


-- Are there any pizzas we should take of the menu?
select name as pizza_name, sum(quantity) as total_qty_ordered
from "order_details" join "pizzas" using(pizza_id) join "pizza_types" using(pizza_type_id)
group by 1
order by 2 asc;


--> 8. What is the Month-over-Month growth for pizza sales?


-- What is the Month-over-Month growth for pizza sales?
with CTE as (select extract(month from date) as month, round(sum(quantity*price)) as
curr_month_sales,
lag(round(sum(quantity*price))) over (order by extract(month from date)) as prev_month_sales
from "orders" join "order_details" using(order_id) join "pizzas" using(pizza_id)
group by 1)
select month, curr_month_sales, prev_month_sales,
round(100*(curr_month_sales-prev_month_sales)::decimal/prev_month_sales::decimal,2) as "MoM
growth %"
from CTE;


-- Pizza Place Sales SQL Project by Abbas Hyder Naqvi

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