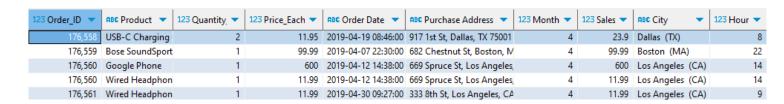
This file contains SQL queries that I used to analyze a dataset. Before running these queries, I cleaned up the dataset using Pandas. These queries helped me find answers to different questions and understand the data better. Feel free to check them out to see how I analyzed the dataset!

select *
from all_data
limit 5;



WHAT WAS THE BEST MONTH FOR SALES? HOW MUCH WAS EARNED THAT MONTH?

select

month

- , round(sum(sales),2) as total_sales_amount
- , sum(Quantity_Ordered) as prod_quantity
- , count(distinct order_id) as total_orders

from all_data ad group by month order by total_sales_amount desc;

123 month	•	123 total_sales_amount 🔻	123 prod_quantity •	123 total_orders 🔻
1	12	4,613,443.34	28,114	24,004
1	10	3,736,726.88	22,703	19,436
	4	3,390,670.24	20,558	17,528
1	11	3,199,603.2	19,798	16,859
	5	3,152,606.75	18,667	15,836
	3	2,807,100.38	17,005	14,549
	7	2,647,775.76	16,072	13,761
	6	2,577,802.26	15,253	12,989
	8	2,244,467.88	13,448	11,484
	2	2,202,022.42	13,449	11,496
	9	2,097,560.13	13,109	11,202
	1	1,822,256.73	10,903	9,293

WHICH CITY HAD THE HIGHEST NUMBER OF PRODUCTS SOLD?

select

city

- , round(sum(sales),2) as total_sales
- , sum(Quantity_Ordered) as prod_quantity
- , count(distinct order_id) as total_orders

from all_data ad

group by city

order by prod_quantity desc;

ABC city	12♂ total_sales ▼	123 prod_quantity 🔻	123 total_orders 🔻
San Francisco (CA)	8,262,203.91	50,239	42,898
Los Angeles (CA)	5,452,570.8	33,289	28,498
New York City (NY)	4,664,317.43	27,932	23,848
Boston (MA)	3,661,642.01	22,528	19,092
Dallas (TX)	2,767,975.4	16,730	14,240
Atlanta (GA)	2,795,498.58	16,602	14,253
Seattle (WA)	2,747,755.48	16,553	14,119
Portland (OR)	1,870,732.34	11,303	9,617
Austin (TX)	1,819,581.75	11,153	9,509
Portland (ME)	449,758.27	2,750	2,363

WHAT TIME SHOULD WE DISPLAY ADVERTISEMENTS TO MAXIMIZE LIKELIHOOD OF CUSTOMER'S BUYING PRODUCT?

select

hour

, count(distinct order_id) as total_orders from all_data ad group by `Hour` order by hour;

		I
123 hour	•	123 total_orders 🔻
	0	3,758
	1	2,255
	2	1,196
	3	804
	4	814
	5	1,259
	6	2,375
	7	3,836
	8	6,036
	9	8,404
	10	10,492
	11	11,882
	12	12,082
	13	11,682
	14	10,522
	15	9,761
	16	9,960
	17	10,476
	18	11,761
	19	12,377
	20	11,763
	21	10,499
	22	8,453
	23	5,990

MOST SOLD PRODUCT & AVERAGE PRICE

select

product

- , sum(quantity_ordered) as prod_quantity
- , round(avg(price_each), 2) as avg_price

from all_data ad group by product;

ABC product	123 prod_quantity •	123 avg_price 🔻
USB-C Charging Cable	23,975	11.95
Bose SoundSport Headphones	13,457	99.99
Google Phone	5,532	600
Wired Headphones	20,557	11.99
Macbook Pro Laptop	4,728	1,700
Lightning Charging Cable	23,217	14.95
27in 4K Gaming Monitor	6,244	389.99
AA Batteries (4-pack)	27,635	3.84
Apple Airpods Headphones	15,661	150
AAA Batteries (4-pack)	31,017	2.99
iPhone	6,849	700
Flatscreen TV	4,819	300
27in FHD Monitor	7,550	149.99
20in Monitor	4,129	109.99
LG Dryer	646	600
ThinkPad Laptop	4,130	999.99
Vareebadd Phone	2,068	400
LG Washing Machine	666	600
34in Ultrawide Monitor	6,199	379.99