Pricing Data Analyst Intern Task

Given Dataset1 (Sales_orders)
Q1 → calculate total sales (delivered orders only) per day.

Q2 → Given the 3 weeks of data from sales orders predict the 4th-week (from 22nd to 28th of October) total sales (delivered only).

Q2 → Based on your prediction in the previous question, what will be the contribution of Wednesday and Friday in the 4th week (from 22nd to 28th of October).

Q4 → Based on the 4 weeks of data, Which week has the highest sales and which day is usually the highest per week in terms of sales (delivered only)

Given Dataset2 (Cost_of_Goods) and Dataset3 (Product_sales_order)
Q5 → Calculate the margin percentage per product.

Q6 → Calculate the gross profit per product.

Q7 → What are the top 3 and bottom 3 products in terms of gross profit.

Q8 → State your recommendations for how we could further increase our gross profit.

SQL Question (write it in the notebook as a text [markup])
Q9 → If the 3 datasets (Sales_orders, Cost_of_Goods & Product_sales_order) were tables in database, write a simple SQL query to create 1 table that has the total number of unique delivered products and the total number of unique canceled products per day for the first week and create a flag that is equal to 1 if that day had more than than 5 unique products delivered and 0 else wise. Also make sure your answer doesn't contain fully duplicated rows

General Notes:

- Try to write comments explaining your thought process for every step you make.
- Use descriptive naming for your code (variable, functions, ...etc).
- Perform any data cleaning you see fit and explain why you did it.
- Make sure your results make sense, if it doesn’t probably something is wrong.