**10 Factual (Easy) Questions:**

1. What is the city of the warehouse with code GUT930? Explanation: Retrieves the city from the warehouses table based on warehouse\_code.

Answer: Martensville

2. What is the product name for SKU with ID 1009AA? Explanation: Queries the sku\_name from the skus table based on sku\_id.

Answer: Product 001

3. What is the current inventory quantity for SKU 1009AA at warehouse NXH382?

Answer: 7210

4. What is the order date for order number SO - 018900?

Answer: 2021-01-01

5. What is the unit price for SKU 1163CA at warehouse NXH382?

Answer: 94.66

6. What is the order quantity for order SO - 018901?

Answer: 151

7. What is the customer type for order SO - 018926?

Answer: Distributor

8: What is the latitude and Longitude of warehouse GUT930 ?

| **latitude** | **longitude** |
| --- | --- |
| 52.29 | -106.67 |

Answer:

9. What is the vendor name for SKU 1193BA at warehouse AXW291?’

Answer: Major Corp

10. What is the country of the warehouse with code FLR025?

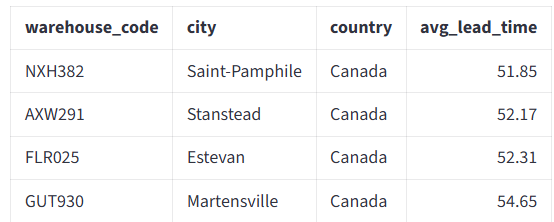
Answer: Canada

**10 Factual (Medium) Question**

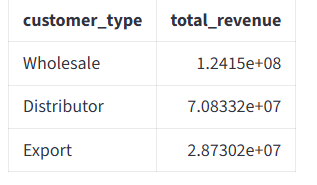
1. Show the total inventory value (total\_value) for each vendor (vendor\_name) across the entire warehouse system.



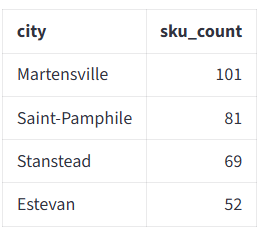
2. Display the average lead time (average\_lead\_time\_days) of all products at each warehouse, sorted from lowest to highest.



3. Calculate the total revenue for each customer type (customer\_type) in 2022.

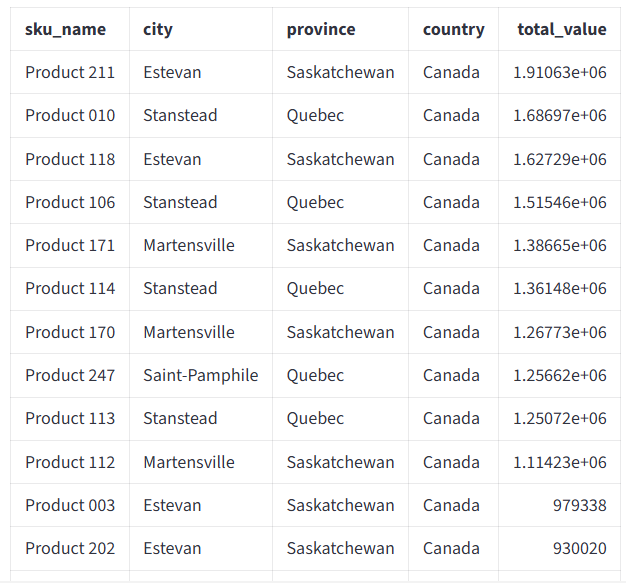


4. How many different SKUs are stored in each city? Show the city name and corresponding SKU count ?

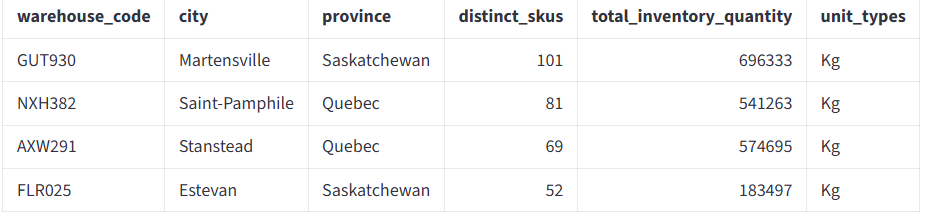


5. Display the total quantity of products sold (order\_quantity) in each province from January 2023 to July 2023.

6. Find all products with inventory value (total\_value) greater than 500,000, showing product name, warehouse location, and corresponding value.



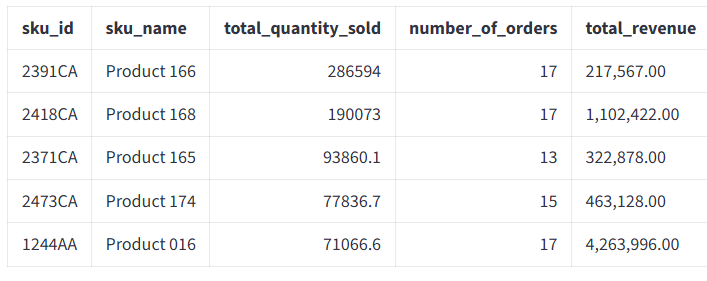
7. Show the number of different products (distinct SKUs) and total inventory quantity (sum of current\_inventory\_quantity) at each warehouse.



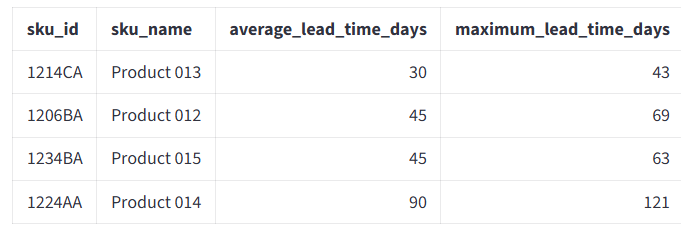
8. Calculate total revenue by month for 2022, (advance : identifying which month had the highest and lowest revenue.)



9. Find the top 5 best-selling SKUs (by quantity) for the first half of 2023 (January to June).



10. Show the average and maximum lead times for SKUs 1206BA, 1214CA, 1224AA, and 1234BA.



**10 Visualization: Line, Bar & Pie Chart Questions**

1. Create a bar chart showing total inventory value for each warehouse.
2. Create a grouped bar chart showing total sales by customer type for each quarter of 2022. Use different colors for each customer type.
3. Create a pie chart showing the percentage breakdown of total revenue by customer type. Include percentage labels and a legend

Velocity

What is the daily sales velocity of all SKUs for the last 30 days?

Show daily sales velocity for ALL SKUs including those with zero sales in the last 30 days