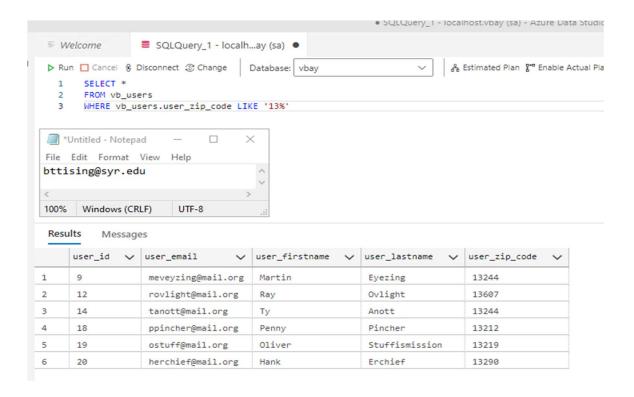
Benjamin Tisinger IST659 Homework 4 11/5/2023

Questions

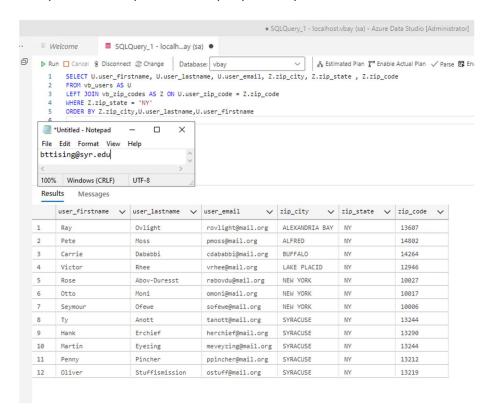
Answer these questions using the problem set submission template. You will need to consult the logical model in the overview section for details. For any screen shots provided, please follow the guidelines for submitting a screen shot.

Write the following as SQL queries. If the query is ambiguous, fill in the gaps and justify your reasoning. For each, include the SQL as a screen shot with the output of the query.

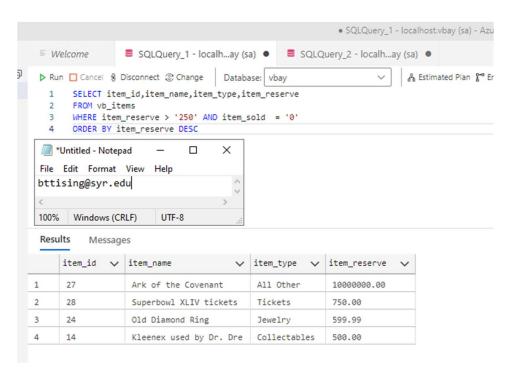
1. Sales would like to send mailings to users who live in a Zip code that starts with "13," for example, 13244, so that they can be notified of their new contact in that region.



2. Find all the users from the state of New York. Print their names and emails along with their city, state, and Zip code. Sort by city, then by user's last /first name.



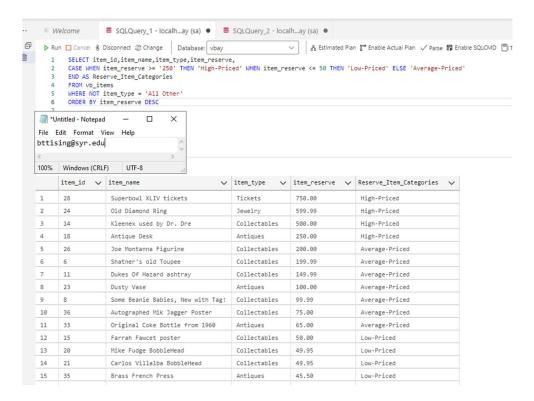
3. High-priced items: Return the ID, name, type, and reserve of items that have not been sold and have a reserve of 250 or higher. Sort the output so that the largest reserve items are first.



4. Reserve item categories. Include the ID, name, type, and reserve price of the item. Do not include items of type "All Other". Create a category column based on item reserve price. When the item is 250 or more, it is a high-priced item.

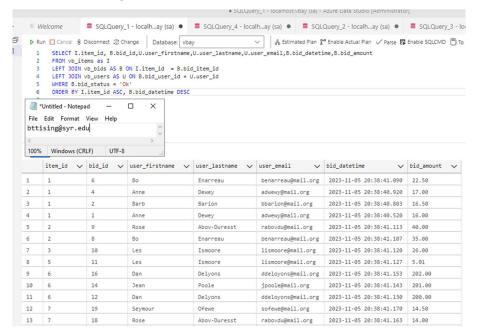
When the item is 50 or less, it is a low-priced item.

Everything else is an average-priced item.

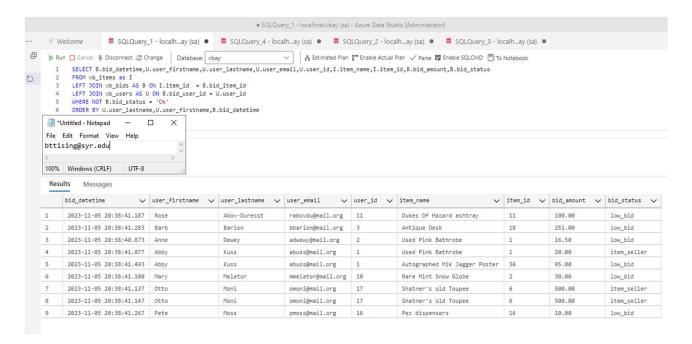


5. Bidder list. Write a query that displays the valid user bids (bid status of 'ok') for a given item_id. This would commonly be displayed on the website for the chosen item. You select the item ID to display and show the bid ID, bid user's name, bid user email, bid date, and bid amount. Put the most recent bids at the top.

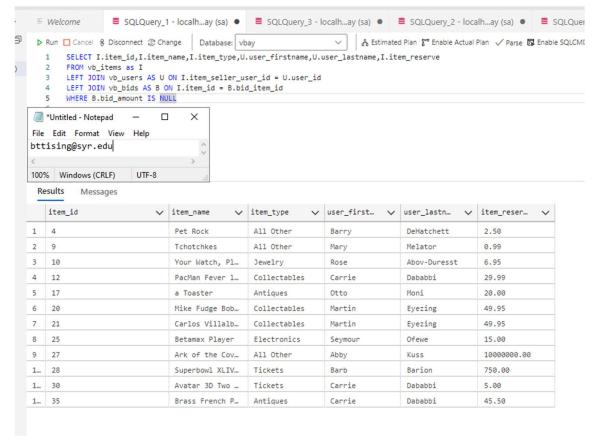
Decided to Order by Item_ID and Time that way you could see each item consecutively and the top row for each item is the highest and recent bid. Also for Bid Username used First/Last Name



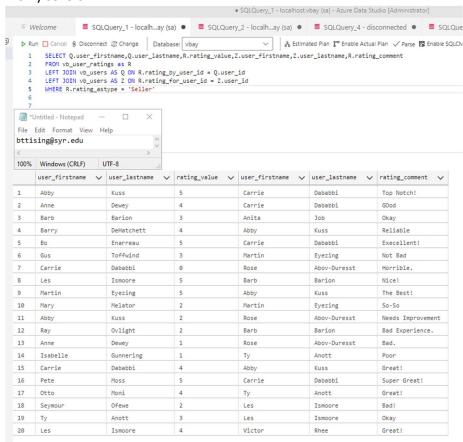
6. The bad bidder list. Write query to help the security audit team find fraudulent activity. For any bid that does not have a status of 'ok', include the date of the bid, name, email, and ID of the bidder and the name and ID of the item bid upon. Also include the amount of the bid and bid status. Sort the output by the user name (last, then first) and then by bid date for users with multiple bad bids.



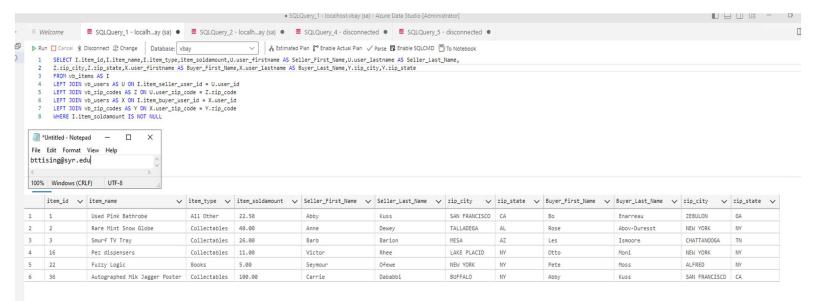
7. Produce a report of items that do not contain a bid. Include the item ID, item name, item type, seller's name, and item reserve.



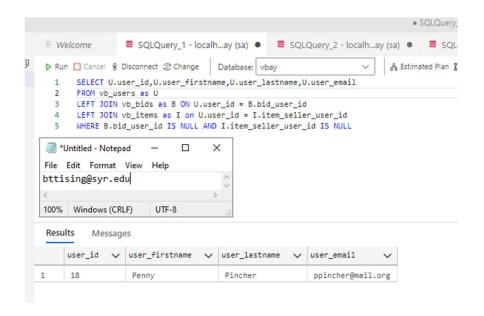
8. Produce a list of seller ratings. Include the name of the user who gave the rating, the name of the user the rating was for, the rating value, and rating comment. Include ratings of only sellers.



9. For items that were sold, generate a report that includes the locations (city and state) of the buyer and seller. Include item ID, item name, item type item sold amount, name of seller, seller's city/state, name of buyer, and the buyer's city /state.



10. Users with no activity. Find the names and emails of any users who have never posted an item for bid or have never bought the item or have never placed a bid.



Reflection

Use this section to reflect on your learning. To achieve the highest grade on the assignment you must be as descriptive and personal as possible with your reflection. Take time to consider these questions before you answer them. Your reflection should be personal. I consider it just as important as the work itself.

- 1. Reflect upon 3 things you learned this week.
 - Learned more about Aggregates such as Min, Max, Count Distinct
 - Always Double check quiz questions. Missed one question twice this week and I knew the correct answer just didn't double check.
 - Learned more about Windows Functions such as row_number and Percent_rank
- 2. What do you feel is still unclear about the topics covered this week?

Not Much is unclear just flagging this week to review the material and homework again as it was heavy.

3. Do you feel you were prepared for this assignment? What can you do to be better prepared?

Yep, felt prepared for this assignment. I hope I did it correctly. I used lots of joins and simple functions and filtering. I didn't use any aggregations or window functions.

- 4. Now that you have completed this topic, rate your comfort level with this week's material. This should be an honest assessment: (choose one)
 - 4 ==> I understand this material and can explain it to others.
 - 3 ==> I understand this material.
 - 2 ==> I somewhat understand the material but sometimes need guidance from others.
 - 1 ==> I understand very little of this material and need extra help.
- **5.** Please provide any additional thoughts you have regarding your learning journey in this course to date.

Enjoying it so far!