Unit 04 Problem Set Submission Form

Overview

Your Name	Hongdi Li
Your SU Email hli248@syr.edu	

Instructions

Put your name and SU email at the top. Answer these questions all from the lab. When asked to include screenshots, please follow the screen shot guidelines from the first lab.

Remember as you complete the problem sets it is not only about getting it right / correct. We will discuss the answers in class so it's important to articulate anything you would like to contribute to the discussion in your answer:

- If you feel the question is vague, include any assumptions you've made.
- If you feel the answer requires interpretation or justification provide it.
- If you do not know the answer to the question, articulate what you tried and how you are stuck.

This how you receive credit for answering questions which might not be correct.

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 screenshots provided, please follow the guidelines for submitting a screenshot.

Write the following as SQL queries. If the query is ambiguous, fill in the games and justify your reasoning. For each, include the SQL as a screenshot 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 can be notified of their new contact in that region.

```
--ID: hli248@syr.edu
  15
 16 --Q1:
 17 select user_email, user_firstname, user_lastname
  18
         from vb_users
  19
           where user_zip_code like '13%'
  20
 Results
          Messages
      user_email

✓ user_firstname

                                              user_lastname
1
      meveyzing@mail.org
                          Martin
                                               Eyezing
2
      rovlight@mail.org
                           Ray
                                               Ovlight
3
      tanott@mail.org
                                               Anott
4
      ppincher@mail.org
                           Penny
                                               Pincher
5
      ostuff@mail.org
                           Oliver
                                               Stuffismission
      herchief@mail.org
                                               Erchief
                           Hank
```

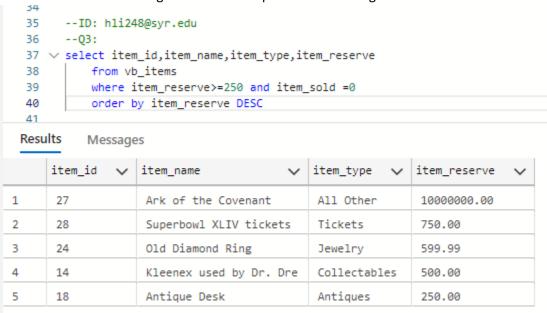
2. Find all the users from the state of New York. print their names and emails along with their city, state and zip code. Sort by city, then user's last /first name.

```
--ID: hli248@syr.edu
--Q:
select s.user_email, s.user_firstname, s.user_lastname, z.zip_city, z.zip_code, z.zip_state
from vb_zip_codes z
join vb_users s on z.zip_code=s.user_zip_code
where z.zip_state='NY'
order by z.zip_city,s.user_lastname,s.user_firstname
```

Results Messages

	user_email 🗸	user_firstname 🗸	user_lastname 🗸	zip_city 🗸	zip_code 🗸	zip_state 🗸
1	rovlight@mail.org	Ray	Ovlight	ALEXANDRIA BAY	13607	NY
2	pmoss@mail.org	Pete	Moss	ALFRED	14802	NY
3	cdababbi@mail.org	Carrie	Dababbi	BUFFALO	14264	NY
4	vrhee@mail.org	Victor	Rhee	LAKE PLACID	12946	NY
5	rabovdu@mail.org	Rose	Abov-Duresst	NEW YORK	10027	NY
6	omoni@mail.org	Otto	Moni	NEW YORK	10017	NY
7	sofewe@mail.org	Seymour	Ofewe	NEW YORK	10006	NY
8	tanott@mail.org	Ту	Anott	SYRACUSE	13244	NY
9	herchief@mail.org	Hank	Erchief	SYRACUSE	13290	NY
10	meveyzing@mail.org	Martin	Eyezing	SYRACUSE	13244	NY
11	ppincher@mail.org	Penny	Pincher	SYRACUSE	13212	NY

3. High Priced Items. Return the id, name, type, and reserve of items which 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.

```
--ID: hli248@syr.edu
44
45
    --Q4:
46 select item_id,item_name,item_type,item_reserve,
47
48
            when item_reserve>=250 then 'high priced'
49
           when item_reserve<=50 then 'low priced'
50
           else 'average price'
51
         END item_reserve_category
52
         from vb_items
         where item_type != 'All Other'
53
54
55
56
57
```

Results Messages

	item_id 🗸	item_name 🗸	item_type 🗸	item_reserve 🗸	item_reserve_category 🗸
1	2	Rare Mint Snow Globe	Collectables	30.50	low priced
2	3	Smurf TV Tray	Collectables	25.00	low priced
3	5	Alf Alarm Clock	Collectables	5.00	low priced
4	6	Shatner's old Toupee	Collectables	199.99	average price
5	7	Slightly-damaged Golf Bag	Sporting Goods	12.75	low priced
6	8	Some Beanie Babies, New	Collectables	99.99	average price
7	10	Your Watch, Please?	Jewelry	6.95	low priced
8	11	Dukes Of Hazard ashtray	Collectables	149.99	average price
9	12	PacMan Fever lunchbox	Collectables	29.99	low priced
10	13	case of vintage tube soc	Antiques	9.00	low priced
11	14	Kleenex used by Dr. Dre	Collectables	500.00	high priced
12	15	Farrah Fawcet poster	Collectables	50.00	low priced
13	16	Pez dispensers	Collectables	10.00	low priced

5. Bidder list. Write a query which 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.

Results Messages

	bid_id 🗸	user_firstname 🗸	user_lastname 🗸	user_email 🗸	bid_datetime	bid_amount 🗸
1	75	Abby	Kuss	abuss@mail.org	2022-09-10 07:02:04.287	100.00
2	72	Abby	Kuss	abuss@mail.org	2022-09-10 07:02:04.283	90.00
3	73	Anne	Dewey	adwewy@mail.org	2022-09-10 07:02:04.283	95.00
4	69	Al	Fresco	afresco@mail.org	2022-09-10 07:02:04.280	11.00
5	70	Abby	Kuss	abuss@mail.org	2022-09-10 07:02:04.280	80.00
6	71	Anne	Dewey	adwewy@mail.org	2022-09-10 07:02:04.280	85.00
7	66	Barry	DeHatchett	bdehatchett@mail.org	2022-09-10 07:02:04.277	21.00
8	67	Isabelle	Gunnering	igunner@mail.org	2022-09-10 07:02:04.277	22.00
9	68	Gus	Toffwind	gtoffwind@mail.org	2022-09-10 07:02:04.277	70.00
10	65	Isabelle	Gunnering	igunner@mail.org	2022-09-10 07:02:04.273	20.00
11	61	Isabelle	Gunnering	igunner@mail.org	2022-09-10 07:02:04.270	16.00
12	62	Barry	DeHatchett	bdehatchett@mail.org	2022-09-10 07:02:04.270	17.00
13	63	Isabelle	Gunnering	igunner@mail.org	2022-09-10 07:02:04.270	18.00
14	64	Barry	DeHatchett	bdehatchett@mail.org	2022-09-10 07:02:04.270	19.00
15	58	Barry	DeHatchett	bdehatchett@mail.org	2022-09-10 07:02:04.267	13.00
16	59	Isabelle	Gunnering	igunner@mail.org	2022-09-10 07:02:04.267	14.00
17	60	Barry	DeHatchett	bdehatchett@mail.org	2022-09-10 07:02:04.267	15.00
18	53	Otto	Moni	omoni@mail.org	2022-09-10 07:02:04.260	601.00
19	54	Martin	Eyezing	meveyzing@mail.org	2022-09-10 07:02:04.260	205.00
20	51	Jean	Poole	jpoole@mail.org	2022-09-10 07:02:04.257	106.00
21	52	Pete	Moss	pmoss@mail.org	2022-09-10 07:02:04.257	600.00
0.0	40	03.1			0000 00 40 07 00 04 053	404.00

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.

```
--ID: hli248@syr.edu
       --Q6:
select b.bid_datetime,s.user_firstname, s.user_lastname,s.user_email, b.bid_user_id,b.bid_id,i.item_name,i.item_id,
b.bid_amount,b.bid_status
from vb_bids b
join vb_users s on b.bid_user_id=s.user_id
join vb_items i on i.item_id=b.bid_item_id
where b.bid_status!='ok'
order bw_s.user_lastname.s.user_firstname.b.bid_datetime|
          where b.bid_status!='ok'
order by s.user_lastname,s.user_firstname,b.bid_datetime
Results Messages
 bid_datetime v user_firstname v user_lastname v user_email v bid_user_id v bid_id v item_name v item_id v bid_amount v bid_status v
1 2822-99-10 07:92:94.220 Rose Abov-Duresst rabovdu@mail.org 11 22 Dukes Of Hazard ashtray 11 100.00
  2022-09-10 07:02:04.240 Barb Barion bbarion@mail.org 3 39 Antique Desk 18 251.00 2022-09-10 07:02:04.200 Anne Dewey adwewy@mail.org 2 3 Used Pink Bathrobe 1 16.50
                                                                                                                                                                                         low_bid
                                                                                                                                                                                         low_bid

        2022-09-10 07:02:04.200
        Abby
        Kuss
        abuss@mail.org
        1
        5
        Used Pink Bathrobe
        1

        2022-09-10 07:02:04.207
        Abby
        Kuss
        abuss@mail.org
        1
        74
        Autographed Mik Jagger Poster
        36

                                                                                                                                                              20.00
                                                                                                                                                                                         item seller
                                                                                                                                                               95.00
                                                                                                                                                                                         low_bid
6 2022-09-10 07:02:04.203 Mary Melator mmelator@mail.org 10 7 Rare Mint Snow Globe 2 30.00 low_bid
                                                                                                                                                                       500.00

        Moni
        omoni@mail.org
        17
        13

        Moni
        omoni@mail.org
        17
        15

                                                                                                                          Shatner's old Toupee 6
                                                                                                                                                                                         item_seller
    2022-09-10 07:02:04.213 Otto
                                                                                                                          Shatner's old Toupee 6 500.00 item_seller
    2022-09-10 07:02:04.237 Pete
                                                    Moss pmoss@mail.org 16 36
                                                                                                                                                                       10.00
                                                                                                                          Pez dispensers
                                                                                                                                                                                         low_bid
```

7. Produce a report of items which do not contain a bid. Include the item id, item name, item type, sellers name item reserve.

```
86 --ID: hli248@syr.edu
87 --Q7:
88 select i.item_id,i.item_name, i.item_type, s.user_firstname,s.user_lastname,i.item_reserve
89 from vb_items i
90 left join vb_bids b on i.item_id=b.bid_item_id
91 join vb_users s on i.item_seller_user_id=s.user_id
92 where b.bid_item_id is NULL
```

Res	Results Messages					
	item_id 🗸	item_name 🗸	item_type 🗸	user_firstname 🗸	user_lastname 🗸	item_reserve 🗸
1	4	Pet Rock	All Other	Barry	DeHatchett	2.50
2	9	Tchotchkes	All Other	Mary	Melator	0.99
3	10	Your Watch, Please?	Jewelry	Rose	Abov-Duresst	6.95
4	12	PacMan Fever lunchbox	Collectables	Carrie	Dababbi	29.99
5	17	a Toaster	Antiques	Otto	Moni	20.00
6	20	Mike Fudge BobbleHead	Collectables	Martin	Eyezing	49.95
7	21	Carlos Villalba BobbleHead	Collectables	Martin	Eyezing	49.95
8	25	Betamax Player	Electronics	Seymour	Ofewe	15.00
9	27	Ark of the Covenant	All Other	Abby	Kuss	10000000.00
10	28	Superbowl XLIV tickets	Tickets	Barb	Barion	750.00
11	30	Avatar 3D Two Tickets	Tickets	Carrie	Dababbi	5.00
12	35	Brass French Press	Antiques	Carrie	Dababbi	45.50

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 only ratings of sellers.

```
--ID: hli248@syr.edu
  99
 100
        --08:
 101
        select s.user_firstname +' '+ s.user_lastname as rating_by,
            s_1.user_firstname +' '+ s_1.user_lastname as rating_for, r.rating_value,r.rating_comment
 102
 103
            from vb_user_ratings r
 104
            join vb_users s on r.rating_for_user_id=s.user_id
 105
            join vb_users s_1 on r.rating_by_user_id=s_1.user_id
 106
            where r.rating_astype='Seller'
 107
 Results
           Messages
                         Chart
                        rating_for
                                             rating_value 🗸
                                                                rating_comment
   rating_by
    Carrie Dababbi
                         Abby Kuss
                                                                 Top Notch!
    Carrie Dababbi
                        Anne Dewey
                                                                 G0od
    Anita Job
                         Barb Barion
                                              3
                                                                 0kay
3
                                                                 Reliable
    Abby Kuss
                         Barry DeHatchett
    Carrie Dababbi
                         Bo Enarreau
                                                                 Execellent!
    Martin Eyezing
                         Gus Toffwind
                                              3
                                                                 Not Bad
    Rose Abov-Duresst
                         Carrie Dababbi
                                                                 Horrible.
    Barb Barion
                         Les Ismoore
                                                                 Nice!
                                                                 The Best!
9
    Abby Kuss
                        Martin Eyezing
                                              5
   Martin Eyezing
                        Mary Melator
                                              2
                                                                 So-So
1...
   Rose Abov-Duresst
                        Abby Kuss
                                              2
                                                                 Needs Improvement
1...
                         Ray Ovlight
                                              2
   Barb Barion
                                                                 Bad Experience.
1...
   Rose Abov-Duresst
                                              1
1...
                        Anne Dewey
                                                                 Bad.
   Ty Anott
                         Isabelle Gunnering
                                              1
                                                                 Poor
    Abby Kuss
                         Carrie Dababbi
                                                                 Great!
    Carrie Dababbi
                         Pete Moss
                                                                 Super Great!
1...
   Ty Anott
                         Otto Moni
                                                                 Great!
                         Seymour Ofewe
                                              2
                                                                 Bad!
    Les Ismoore
                         Ty Anott
                                              3
    Les Ismoore
                                                                 0kay
```

9. For items that were sold, generate a report which 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

4

Great!

Les Ismoore

Victor Rhee



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.

```
124
      --ID: hli248@syr.edu
125
     --010:
126
127
     select s.user_firstname+ ' '+s.user_lastname as no_activity_name,s.user_email
128
        from vb_users s
         left join vb_bids b on s.user_id=b.bid_user_id
129
         left join vb_items i on s.user_id=i.item_buyer_user_id and s.user_id=i.item_seller_user_id
130
        where b.bid_user_id is null and i.item_seller_user_id is null and i.item_buyer_user_id is null
131
132
100
```

Results Messages

no_activity_name 🗸	user_email 🗸
Ty Anott	tanott@mail.org
Penny Pincher	ppincher@mail.org
Anita Job	ajob@mail.org

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.

1. What are the key things you learned through the process of completing this assignment?

I think I am understanding how to use some key operator, such as 'join', 'order by', 'as' ... Besides, I need to design the logic before I start, I have to look up the table, think the relationship between each table.

2. What were the challenges or roadblocks (if any) you encountered on the way to completing it? The give question sometimes is hard to understand, for example the last question that ask us to find the non-activity people. I am wondering the question is saying "...or...or..." Is that means people posted an item but never bought the item still consider as no activity?

And I made a lot of mistakes in using the join part, and it is hard to figure out, such as I put "bid_id=user_id" which give a cut off answer.

- 3. Were you prepared for this assignment? What can you do to be better prepared?

 I think join part is makes me feel confused. I understand how to use it but I need take a long time to thinking of using right join or left join. When we dealing multiple table, it is painful.
- 4. Now that you have completed the assignment 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.

3