

Unit 04 Problem Set Submission Form

Overview

Your Name	Bhavya Deepak Shah
Your SU Email	bhshah@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.

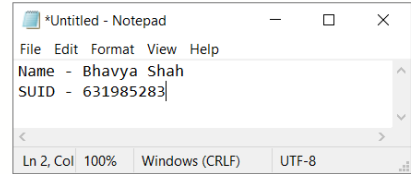
Write the following as SQL queries. If the query is ambiguous, fill in the gaps and justify your reasoning. For each, include the SQL as a screenshot with the output of the query.

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.

```

1 select * from vb_users
2 where user_zip_code LIKE '13%'
3
4 select user_firstname, user_lastname, user_email, user_zip_code, z.zip_city
5 from vb_users s
6 join vb_zip_codes z on s.user_zip_code = z.zip_code
7 where zip_state = 'NY'
8 order by zip_city, user_lastname
9
10 select item_id, item_name, item_sold, item_type, item_reserve from vb_items
11 where item_sold = 0 and item_reserve >= 250
12 order by item_reserve desc
13
14 select * from vb_items
15
16 select item_id, item_name, item_type, item_reserve,
17 case
18 when item_reserve >= 250 then 'high priced item'

```



Results Messages

	user_id	user_email	user_firstname	user_lastname	user_zip_code
1	9	meveyzing@mail.org	Martin	Eyezing	13244
2	12	rovlight@mail.org	Ray	Ovlight	13607
3	14	tanott@mail.org	Ty	Anott	13244
4	18	ppincher@mail.org	Penny	Pincher	13212
5	19	ostuff@mail.org	Oliver	Stuffismission	13219
6	20	herchief@mail.org	Hank	Erchief	13290

- 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.

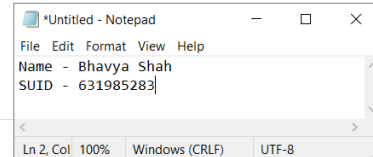
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```

1 select * from vb_users
2 where user_zip_code LIKE '13%'
3
4 select user_firstname, user_lastname, user_email, user_zip_code, z.zip_city
5 from vb_users s
6 join vb_zip_codes z on s.user_zip_code = z.zip_code
7 where zip_state = 'NY'
8 order by zip_city, user_lastname
9
10 select item_id, item_name, item_sold, item_type, item_reserve from vb_items

```



Results Messages

	user_firstname	user_lastname	user_email	user_zip_code	zip_city
1	Ray	Ovlight	rovlight@mail.org	13607	ALEXANDRIA BAY
2	Pete	Moss	pmoss@mail.org	14802	ALFRED
3	Carrie	Dababbi	cdababbi@mail.org	14264	BUFFALO
4	Victor	Rhee	vrhee@mail.org	12946	LAKE PLACID
5	Rose	Abov-Duresst	rabovdu@mail.org	10027	NEW YORK
6	Otto	Moni	omoni@mail.org	10017	NEW YORK
7	Seymour	Ofewe	sofewe@mail.org	10006	NEW YORK
8	Ty	Anott	tanott@mail.org	13244	SYRACUSE
9	Hank	Erchief	herchief@mail.org	13290	SYRACUSE
10	Martin	Eyezing	meveyzing@mail.o...	13244	SYRACUSE
11	Penny	Pincher	ppincher@mail.org	13212	SYRACUSE
12	Oliver	Stuffismission	ostuff@mail.org	13219	SYRACUSE

- 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.

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```

7      where zip_state = 'NY'
8      order by zip_city, user_lastname
9
10     select item_id, item_name, item_sold, item_type, item_reserve from vb_items
11     ... where item_sold = 0 and item_reserve >= 250
12     ... order by item_reserve desc
13
14     select * from vb_items
15
16     select item_id, item_name, item_type, item_reserve,

```

Results Messages

	item_id	item_name	item_sold	item_type	item_reserve
1	27	Ark of the Covenant	0	All Other	1000000.00
2	28	Superbowl XLIV tickets	0	Tickets	750.00
3	24	Old Diamond Ring	0	Jewelry	599.99
4	14	Kleenex used by Dr. Dre	0	Collectables	500.00
5	18	Antique Desk	0	Antiques	250.00

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SUID - 631985283

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- 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.

```

16     select item_id, item_name, item_type, item_reserve,
17     ... case
18     ... .. when item_reserve >= 250 then 'high priced item'
19     ... .. when item_reserve <= 50 then 'low priced item'
20     ... .. else 'average priced item'
21     ... end as category
22     ... from vb_items
23     ... where item_type != 'All Other'
24

```

Results Messages

	item_id	item_name	item_type	item_reserve	category
1	2	Rare Mint Snow Globe	Collectables	30.50	low priced item
2	3	Smurf TV Tray	Collectables	25.00	low priced item
3	5	Alf Alarm Clock	Collectables	5.00	low priced item
4	6	Shatner's old Toupee	Collectables	199.99	average priced item
5	7	Slightly-damaged Golf Bag	Sporting Goods	12.75	low priced item
6	8	Some Beanie Babies, New with...	Collectables	99.99	average priced item
7	10	Your Watch, Please?	Jewelry	6.95	low priced item
8	11	Dukes Of Hazard ashtray	Collectables	149.99	average priced item
9	12	PacMan Fever lunchbox	Collectables	29.99	low priced item
10	13	case of vintage tube socks	Antiques	9.00	low priced item
11	14	Kleenex used by Dr. Dre	Collectables	500.00	high priced item
12	15	Farrar Fawcett poster	Collectables	50.00	low priced item
13	16	Pez dispensers	Collectables	10.00	low priced item
14	17	a Toaster	Antiques	20.00	low priced item

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- 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.

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```

27
28 select u.user_id, u.user_firstname, u.user_lastname, u.user_email, bid_item_id, bid_status, bid_id, bid_amount, bid_datetime
29 from vb_bids b
30 join vb_users u on u.user_id = b.bid_user_id
31 where bid_status = 'ok'
32 order by bid_datetime desc
33
34 select bid_datetime, u.user_firstname, u.user_lastname, u.user_email, bid_id, b
35 from vb_bids b
36 join vb_users u on u.user_id = b.bid_user_id

```

Results Messages

	user_id	user_firstname	user_lastname	user_email	bid_item_id	bid_status	bid_id	bid_amount	bid_datetime
1	1	Abby	Kuss	abuss@mail.org	36	ok	70	80.00	2022-09-10 03:36:15.4
2	2	Anne	Dewey	adwevy@mail.org	36	ok	71	85.00	2022-09-10 03:36:15.4
3	1	Abby	Kuss	abuss@mail.org	36	ok	72	90.00	2022-09-10 03:36:15.4
4	2	Anne	Dewey	adwevy@mail.org	36	ok	73	95.00	2022-09-10 03:36:15.4
5	1	Abby	Kuss	abuss@mail.org	36	ok	75	100.00	2022-09-10 03:36:15.4
6	24	Al	Fresco	afresco@mail.org	34	ok	69	11.00	2022-09-10 03:36:15.4
7	6	Gus	Toffwind	gtoffwind@mail.org	33	ok	68	70.00	2022-09-10 03:36:15.4
8	7	Isabelle	Gunninger	igunner@mail.org	32	ok	67	22.00	2022-09-10 03:36:15.4
9	4	Barry	DeHatchett	bdehatchett@mail.org	32	ok	66	21.00	2022-09-10 03:36:15.3
10	7	Isabelle	Gunninger	igunner@mail.org	32	ok	65	20.00	2022-09-10 03:36:15.3
11	4	Barry	DeHatchett	bdehatchett@mail.org	32	ok	64	19.00	2022-09-10 03:36:15.3
12	7	Isabelle	Gunninger	igunner@mail.org	32	ok	63	18.00	2022-09-10 03:36:15.3
13	4	Barry	DeHatchett	bdehatchett@mail.org	32	ok	62	17.00	2022-09-10 03:36:15.2

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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.

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```

32 order by bid_datetime desc
33
34 select bid_datetime, u.user_firstname, u.user_lastname, u.user_email, bid_id, bid_item_id, bid_status, i.item_name, i.item_id, bid_status, bid_amo
35 from vb_bids b
36 join vb_users u on u.user_id = b.bid_user_id
37 join vb_items i on i.item_id = b.bid_item_id
38 where bid_status != 'ok'
39 order by u.user_lastname, u.user_firstname, bid_datetime
40
41 select item_id, item_name, item_type, item_reserve, b.bid_item_id from vb_items

```

Results Messages

bid_datetime	user_firstname	user_lastname	user_email	bid_id	bid_item_id	bid_status	item_name	item_id
2022-09-10 03:36:14.797	Rose	Abov-Duresst	rabovdu@mail.org	22	11	low_bid	Dukes Of Hazard a...	11
2022-09-10 03:36:14.957	Barb	Barion	bbarion@mail.org	39	18	low_bid	Antique Desk	18
2022-09-10 03:36:14.407	Anne	Dewey	adwevy@mail.org	3	1	low_bid	Used Pink Bathrobe	1
2022-09-10 03:36:14.407	Abby	Kuss	abuss@mail.org	5	1	item_seller	Used Pink Bathrobe	1
2022-09-10 03:36:15.487	Abby	Kuss	abuss@mail.org	74	36	low_bid	Autographed Mik J...	36
2022-09-10 03:36:14.407	Mary	Melator	mmelator@mail.org	7	2	low_bid	Rare Mint Snow Gl...	2
2022-09-10 03:36:14.530	Otto	Moni	omoni@mail.org	13	6	item_seller	Shatner's old Tou...	6
2022-09-10 03:36:14.583	Otto	Moni	omoni@mail.org	15	6	item_seller	Shatner's old Tou...	6
2022-09-10 03:36:14.957	Pete	Moss	pmoss@mail.org	36	16	low_bid	Pez dispensers	16

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

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```
1 select i.item_id, i.item_name, item_type, vb_users.user_firstname, i.item_reserve
2 from vb_items i
3 LEFT JOIN vb_bids on i.item_id = vb_bids.bid_item_id
4 JOIN vb_users on vb_users.user_id = i.item_seller_user_id
```

Results Messages

	item_id	item_name	item_type	user_firstname	item_reserve
1	1	Used Pink Bathrobe	All Other	Abby	15.95
2	1	Used Pink Bathrobe	All Other	Abby	15.95
3	1	Used Pink Bathrobe	All Other	Abby	15.95
4	1	Used Pink Bathrobe	All Other	Abby	15.95
5	1	Used Pink Bathrobe	All Other	Abby	15.95
6	1	Used Pink Bathrobe	All Other	Abby	15.95
7	2	Rare Mint Snow Globe	Collectables	Anne	30.50
8	2	Rare Mint Snow Globe	Collectables	Anne	30.50
9	2	Rare Mint Snow Globe	Collectables	Anne	30.50
10	3	Smurf TV Tray	Collectables	Barb	25.00
11	4	Pet Rock	All Other	Barry	2.50
12	5	Alf Alarm Clock	Collectables	Carrie	5.00
13	6	Shatner's old Toupee	Collectables	Otto	199.99
14	6	Shatner's old Toupee	Collectables	Otto	199.99
15	6	Shatner's old Toupee	Collectables	Otto	199.99
16	6	Shatner's old Toupee	Collectables	Otto	199.99
17	6	Shatner's old Toupee	Collectables	Otto	199.99
18	7	Slightly damaged Co	Collecting Co	Lee	12.75

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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.

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45
46 select u.user_firstname as seller,u2.user_firstname as buyer,r.rating_value,r.rating_comment
47 from vb_user_ratings r
48 JOIN vb_users u on u.user_id = r.rating_by_user_id
49 JOIN vb_users u2 on u2.user_id = r.rating_for_user_id
50 WHERE r.rating_astype = 'seller'

```

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Results Messages

	seller	buyer	rating_value	rating_comment
1	Abby	Carrie	5	Top Notch!
2	Anne	Carrie	4	Good
3	Barb	Anita	3	Okay
4	Barry	Abby	4	Reliable
5	Bo	Carrie	5	Excellent!
6	Gus	Martin	3	Not Bad
7	Carrie	Rose	0	Horrible.
8	Les	Barb	5	Nice!
9	Martin	Abby	5	The Best!
10	Mary	Martin	2	So-So
11	Abby	Rose	2	Needs Improvement
12	Ray	Barb	2	Bad Experience.
13	Anne	Rose	1	Bad.
14	Isabelle	Ty	1	Poor
15	Carrie	Abby	4	Great!
16	Pete	Carrie	5	Super Great!

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

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```

1 select i.item_id, i.item_type, i.item_soldamount, s.user_firstname as seller_name, sz.zip_city as seller_city, b.user_firstname, bz.zip_city
2 from vb_items i
3 JOIN vb_users s on s.user_id = i.item_seller_user_id
4 Join vb_users b on b.user_id = i.item_buyer_user_id
5 join vb_zip_codes sz on sz.zip_code = s.user_zip_code
6 join vb_zip_codes bz on bz.zip_code = b.user_zip_code

```

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Results Messages

	item_id	item_type	item_soldamount	seller_name	seller_city	user_firstname	zip_city
1	1	All other	22.50	Abby	SAN FRANCISCO	Bo	ZEBULON
2	2	Collectables	40.00	Anne	TALLADEGA	Rose	NEW YORK
3	3	Collectables	26.00	Barb	MESA	Les	CHATTANOOGA
4	16	Collectables	11.00	Victor	LAKE PLACID	Otto	NEW YORK
5	22	Books	5.00	Seymour	NEW YORK	Pete	ALFRED
6	36	Collectables	100.00	Carrie	BUFFALO	Abby	SAN FRANCISCO

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.

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```
58
59 select distinct vb_users.user_firstname, vb_users.user_email from vb_users
60 LEFT JOIN vb_bids b on b.bid_user_id = vb_users.user_id
61 LEFT JOIN vb_items si on vb_users.user_id = si.item_seller_user_id
62 LEFT JOIN vb_items bi on vb_users.user_id = bi.item_buyer_user_id
63 where b.bid_id is NULL or si.item_id is NULL or bi.item_buyer_user_id is NULL
```

Results Messages

	user_firstname	user_email
1	Anne	adwevy@mail.org
2	Al	afresco@mail.org
3	Anita	ajob@mail.org
4	Barb	bbarion@mail.org
5	Barry	bdehatchett@mail.org
6	Carrie	cdababbi@mail.org
7	Dan	ddeloyons@mail.org
8	Gus	gtoffwind@mail.org
9	Hank	herchief@mail.org
10	Isabelle	igunner@mail.org
11	Jean	jpoole@mail.org
12	Martin	meveyzing@mail.org
13	Mary	mmelator@mail.org
14	Oliver	ostuff@mail.org
15	Pete	pmoss@mail.org
16	Penny	ppincher@mail.org

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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?
Ans - concepts of join, order and where clause
2. What were the challenges or roadblocks (if any) you encountered on the way to completing it?
Ans – applications of joins using aliases
3. Were you prepared for this assignment? What can you do to be better prepared?
Ans - Yes, the online videos were helpful. I could watch some more examples to be better prepared.

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.