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








Student ID:19683688

1. Find the item ids of the item with the name 'Laptop' and limit your results to the top 5 costliest items. [10pts]

a) [7pts] SQL Query

```
SELECT I.item_id  
FROM cs222p_interchange.item I  
WHERE I.name='Laptop'  
ORDER BY price DESC LIMIT 5
```

b) [3pts] Result

Data Output		Messages	Notifications
       			
	item_id [PK] text 		
1	6MR70		
2	P69NU		
3	F8X32		
4	XLEZP		
5	SXTWL		

2. List the email of the sellers whose last name was 'Taylor' [10pts]

a) [7pts] SQL Query

```
SELECT U.email
```

```
FROM cs222p_interchange.seller S, cs222p_interchange.user U
```


```
WHERE S.user_id=U.user_id AND U.last_name='Taylor'
```


b) [3pts] Result


Data Output


Messages


Notifications





















email

text



1

ronald.Taylor432@gmail.co...

3. Select the first and last names of users who bought an item with the name 'Hoodie'. Sort the results in ascending order based on the first name [10pts].

a) [7pts] SQL Query

```
SELECT U.first_name, U.last_name
FROM cs222p_interchange.item I, cs222p_interchange.user U
WHERE I.name='Hoodie' AND I.buyer_user_id=U.user_id
ORDER BY first_name ASC
```










b) [3pts] Result

Data Output			Messages	Notifications
	first_name text	last_name text		
1	Anthony	Rice		
2	Brandon	Boyd		
3	Jennifer	Nguyen		
4	Jessica	Hurley		
5	Juan	Bradley		
6	Julie	Sanchez		
7	Matthew	Davis		
8	Paul	Solomon		
9	Scott	Walker		

- a) [7pts] SQL Query

ORDER BY -quality ASC

b) [3pts] Result

Data Output		Messages	Notifications
			
			
	<b>buyer_id</b> text 		
1	3R3CX		
2	S86V6		
3	53DXQ		



6. List the emails, first names, and last names of users who are both a buyer and a seller on the platform and who are a resident of the state 'West Virginia and order the results using zipcode in ascending order [15pts].

a) [12pts] SQL Query

```
SELECT U.email, U.first_name, U.last_name
```

```
FROM cs222p_interchange.user U, cs222p_interchange.seller S,  
cs222p_interchange.buyer B
```

```
WHERE U.user_id=S.user_id AND U.user_id=B.user_id AND U.state='West Virginia'
```

b) [3pts] Result

Data Output   Messages   Notifications			
	email text	first_name text	last_name text
1	garcia98650@aol.com	Jeffrey	Garcia
2	Jermaine_Ponce713@yahoo.co...	Jermaine	Ponce

7. List the ad ids of advertisements that have a picture with a pic\_num of '2' and are associated with an item of the category 'Electronics' with a price under 1000. Order the results by ad\_id in ascending order and limit the results to 5 records [15pts].

a) [12pts] SQL Query

```
SELECT A.ad_id
```

```
FROM cs222p_interchange.ad A, cs222p_interchange.item I
```

```
WHERE A.pic_num='2' AND I.category='Electronics' AND I.item_id=A.item_id AND  
I.price<1000
```

```
ORDER BY A.ad_id ASC LIMIT 5
```

b) [3pts] Result

Data Output

Messages

Notifications

ad\_id

[PK] text

1

0HMGG

2

0KD2B

3

0NSU4

4

12Q6R

5

16JII

8. List the mobile phone numbers (i.e., of kind 'MOBILE') of all the sellers who listed items on the platform on the date "2022-07-17". Limit your output to 10 records [15pts].

a) [12pts] SQL Query

```
SELECT phone.number
```

```
FROM cs222p_interchange.Item I, cs222p_interchange.user U,  
cs222p_interchange.phone phone
```

```
WHERE I.list_date='2022-07-17' AND U.user_id=I.seller_user_id AND  
phone.user_id=I.seller_user_id and phone.kind='mobile'
```

```
LIMIT 10
```

b) [3pts] Result

Data Output			Messages	Notifications
	number			
	text			
1	396-123-9381			
2	001-219-656-4140x0...			
3	(246)724-8457x825			
4	+1-466-789-3896x657			
5	(351)826-8868x69372			
6	+1-064-660-6929x535			
7	6175201435			
8	+1-075-479-1461			
9	0525350074			
10	852.667.9845			