Last Name: Jiaxin First Name: Li 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]

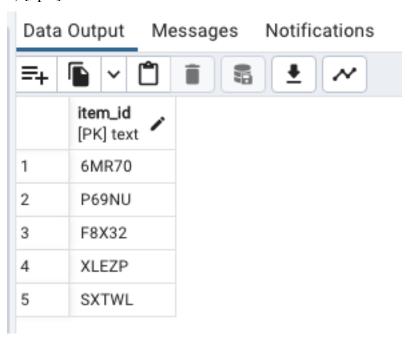
a) [7pts] SQL Query

SELECT I.item\_id

FROM cs222p\_interchange.item I

WHERE I.name='Laptop'

ORDER BY price DESC LIMIT 5



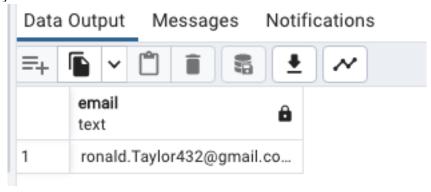
2. List the email of the sellers whose last name was 'Taylor' [10pts]

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'



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].

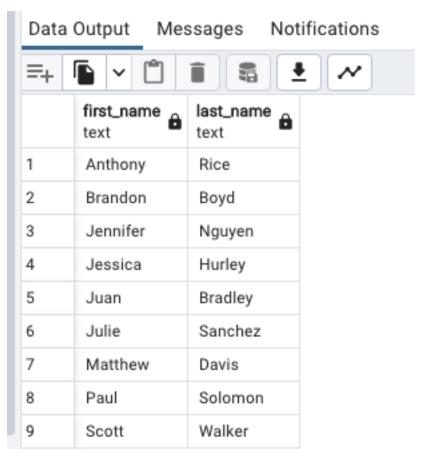
a) [7pts] SQL Query

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



4. List the user\_id of the buyer who rated a seller who sells an item with item\_id 'G9WMY'. Order the results in descending order of the seller's quality rating.[10pts].

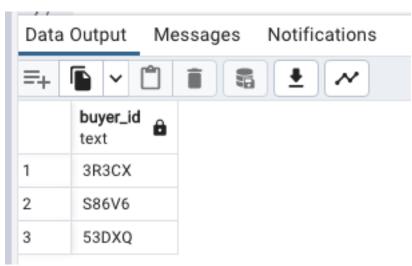
# a) [7pts] SQL Query

SELECT R.buyer\_id

FROM cs222p\_interchange.ratings R, cs222p\_interchange.item I

WHERE I.item\_id='G9WMY' AND I.seller\_user\_id=R.seller\_id

ORDER BY -quality ASC

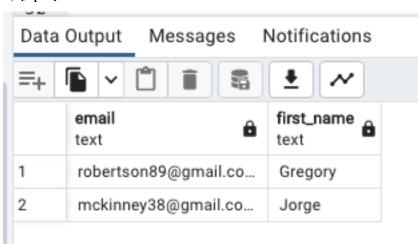


- 5. List the user emails and first names of users who bought at least one item of the category "Clothing, Shoes & Jewelry" or "Toys & Games" on the platform and who live in the city "Josephstad". [15pts].
  - a) [12pts] SQL Query

SELECT U.email, U.first\_name

FROM cs222p\_interchange.item I, cs222p\_interchange.user U

WHERE (I.category='Clothing, Shoes & Jewelry' OR I.category='Toys & Games') AND U.user\_id=I.buyer\_user\_id AND U.city='Josephstad'



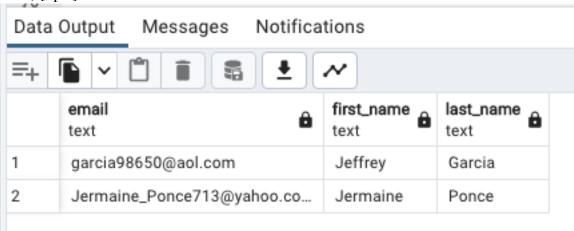
6. List the emails, first names, and last names of users who are both a buyer and a seller on the platform and who are a resident of the state 'West Virginia and order the results using zipcode in ascending order [15pts].

## 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'



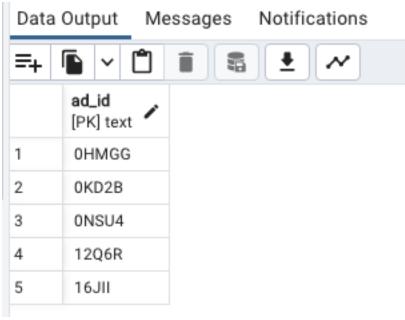
- 7. List the ad ids of advertisements that have a picture with a pic\_num of '2' and are associated with an item of the category 'Electronics' with a price under 1000. Order the results by ad\_id in ascending order and limit the results to 5 records [15pts].
  - a) [12pts] SQL Query

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



- 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

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