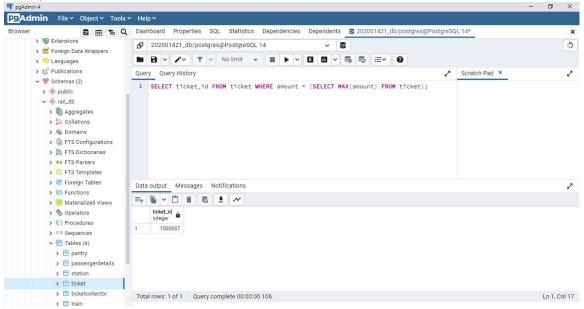
## 202001421 Lab 2

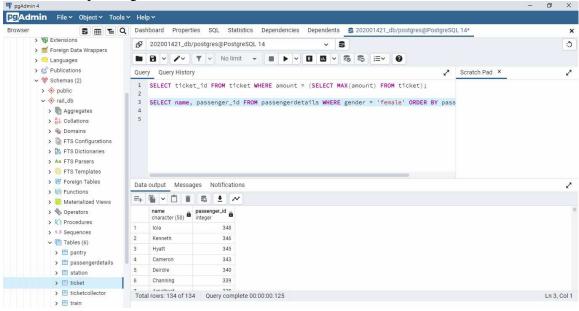
1: Display ticket id for maximum ticket amount.

SELECT ticket\_id FROM ticket WHERE amount = (SELECT MAX(amount) FROM ticket);



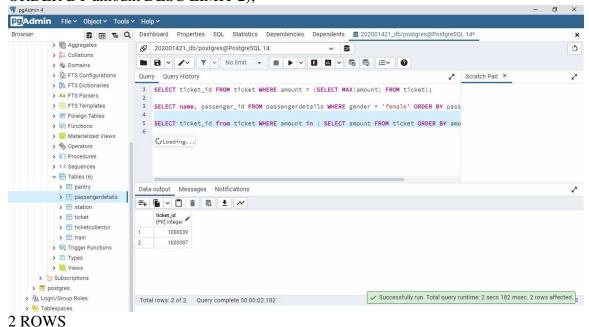
1 row

2: Print the Name of female passengers in descending order of passenger\_id. SELECT name, passenger\_id FROM passengerdetails WHERE gender = 'female' ORDER BY passenger\_id DESC;



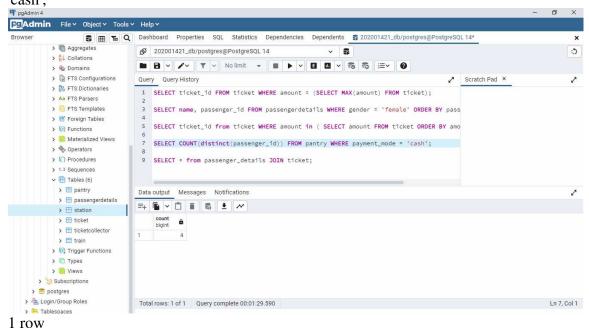
134 rows

3: Print ticket id of the highest 2 amounts of tickets. SELECT ticket\_id from ticket WHERE amount in ( SELECT amount FROM ticket ORDER BY amount DESC LIMIT 2);



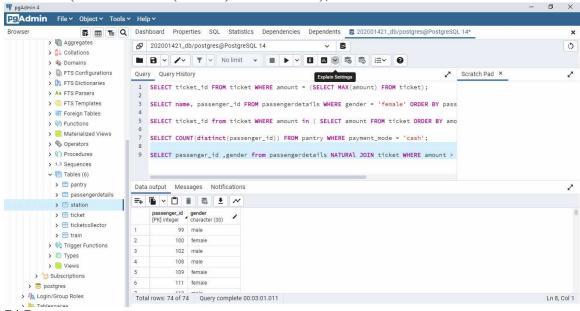
4: Print count of passengers who did the payment of food in cash.

SELECT COUNT(distinct(passenger\_id)) FROM pantry WHERE payment\_mode = 'cash';



5: Print Passenger id and gender of the passengers whose ticket amount is greater than avg amount value.

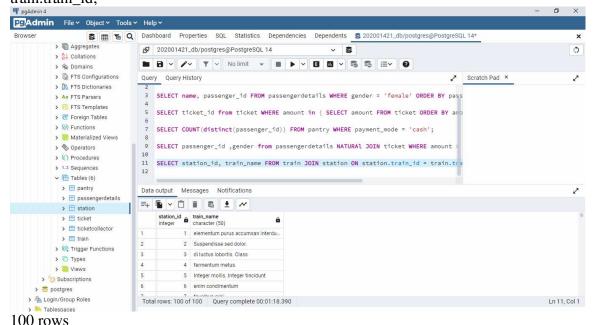
SELECT passenger\_id ,gender from passengerdetails NATURAl JOIN ticket WHERE amount > (SELECT AVG(amount) FROM ticket);



74 Rows

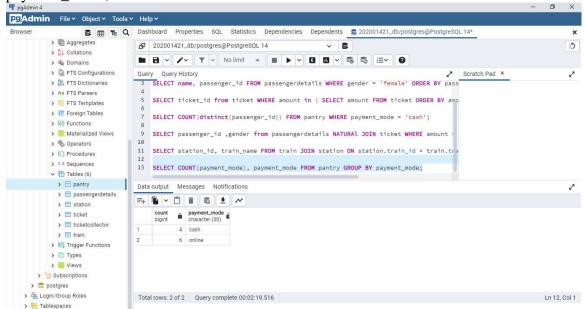
6: Find the station id and the train name arriving at that station.

SELECT station\_id, train\_name FROM train JOIN station ON station.train\_id = train.train\_id;



## 7: Print the count of different types of transactions

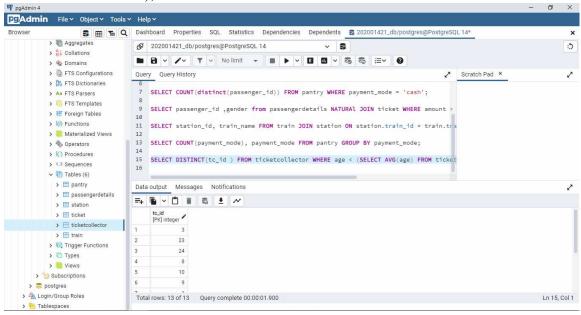
SELECT COUNT(payment\_mode), payment\_mode FROM pantry GROUP BY payment\_mode;



## 2 ROWS

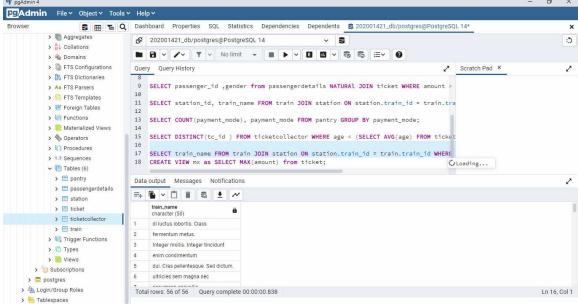
8: Find the id of ticket collectors whose age is less than avg age.

SELECT DISTINCT(tc\_id ) FROM ticketcollector WHERE age < (SELECT AVG(age) FROM ticketcollector);



9: Find the names of trains which are taking a halt at a station and sort in order of station id

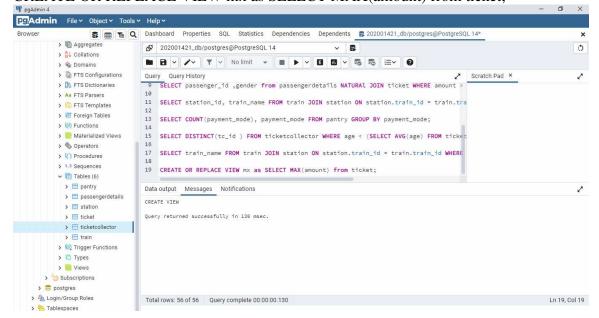
SELECT train\_name FROM train JOIN station ON station.train\_id = train.train\_id WHERE hault = 'Yes' ORDER BY station.station\_id;



56 rows

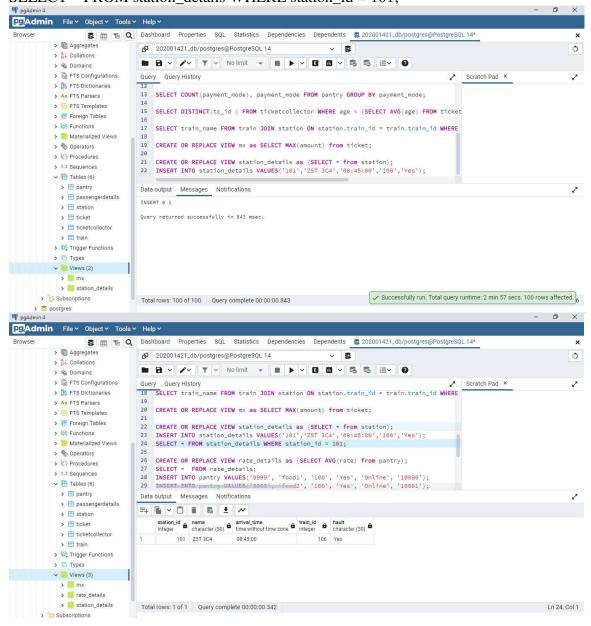
10: Create a view of the maximum amount.

CREATE OR REPLACE VIEW mx as SELECT MAX(amount) from ticket;



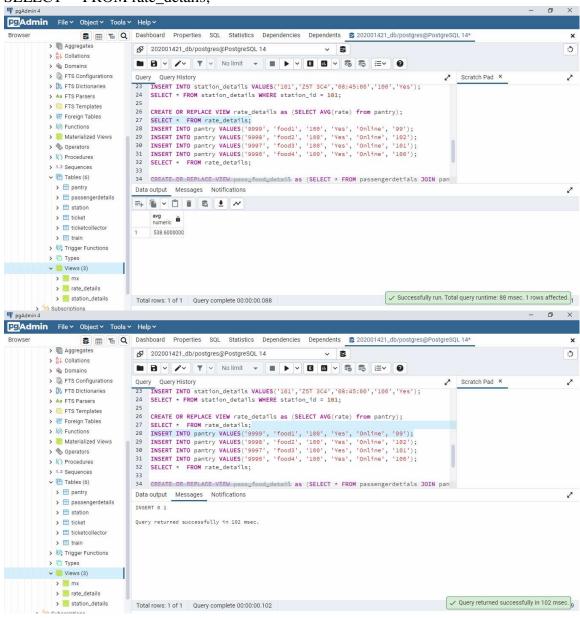
11: Create a view for station details then insert and display some new station ids to the recently created view.

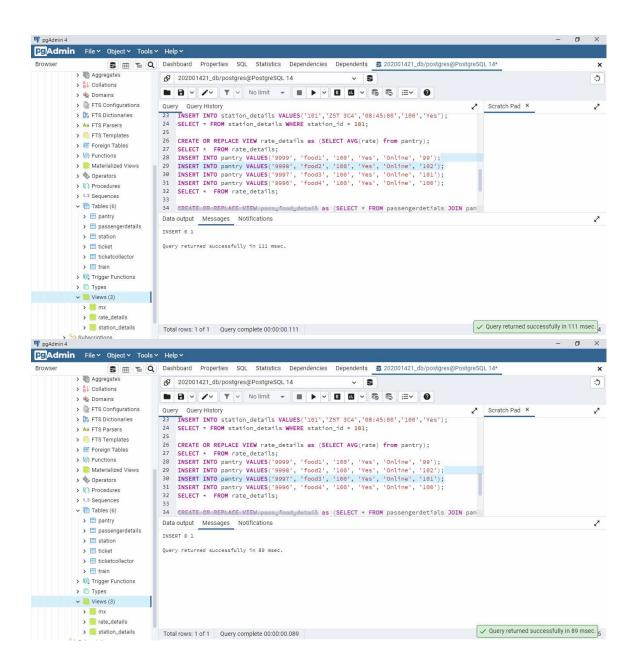
CREATE OR REPLACE VIEW station\_details as (SELECT \* from station); INSERT INTO station\_details VALUES('101','Z5T 3C4','08:45:00','106','Yes'); SELECT \* FROM station\_details WHERE station\_id = 101;

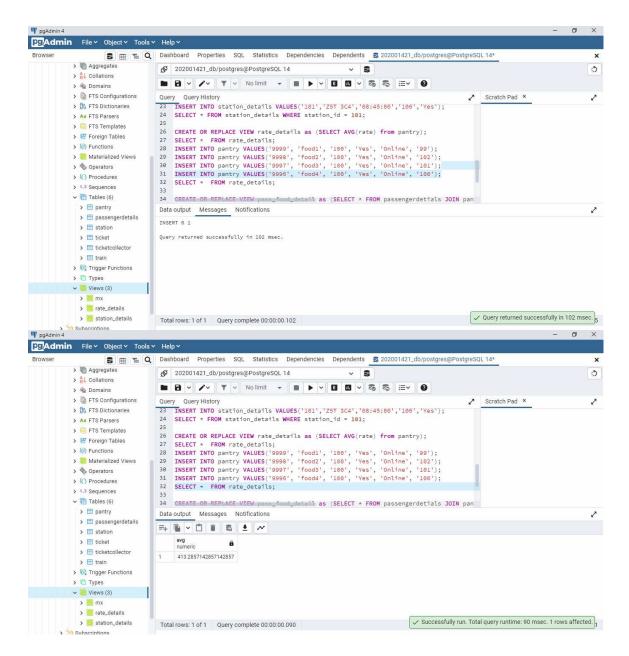


12: Create a view of the rate and put the average there. add 4 more food items to the pantry table and then display the contents of the view with the updated values. CREATE OR REPLACE VIEW rate\_details as (SELECT AVG(rate) from pantry); SELECT \* FROM rate\_details;

INSERT INTO pantry VALUES('9999', 'food1', '100', 'Yes', 'Online', '99'); INSERT INTO pantry VALUES('9998', 'food2', '100', 'Yes', 'Online', '102'); INSERT INTO pantry VALUES('9997', 'food3', '100', 'Yes', 'Online', '101'); INSERT INTO pantry VALUES('9996', 'food4', '100', 'Yes', 'Online', '100'); SELECT \* FROM rate details;

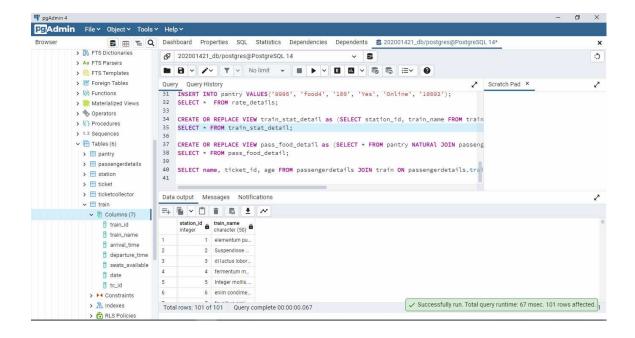






13: Create a view with all the train names and the station\_id on which it is arriving in ascending order of station id.

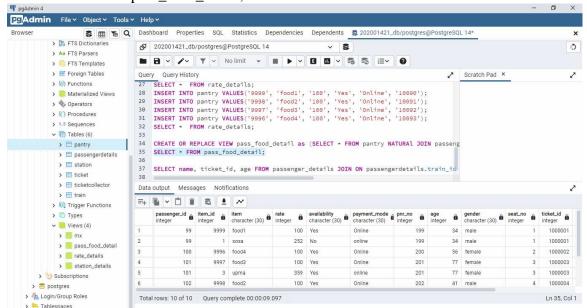
CREATE OR REPLACE VIEW train\_stat\_detail as (SELECT station\_id, train\_name FROM train JOIN station ON station.train\_id = train.train\_id); SELECT \* FROM train\_stat\_detail;



14: Display all the details of passengers whose payment mode was online for food items and create a view for the same.

CREATE OR REPLACE VIEW pass\_food\_detail as (SELECT \* FROM pantry NATURAl JOIN passengerdetails WHERE payment\_mode = 'Online' or payment\_mode = 'online');

SELECT \* FROM pass\_food\_detail;



15: Display the name, ticket id and age of the passengers who are travelling in a train with the number of seats available is greater than 10 in decreasing order of the ticket id.

SELECT name, ticket\_id, age FROM passengerdetails JOIN train ON passengerdetails.train\_id = train.train\_id WHERE train.seats\_available > 10 ORDER BY ticket\_id DESC;

