IT214

Lab Report LAB-2

Date-September 2,2022

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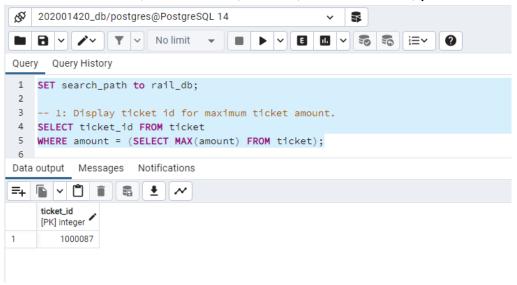
Student ID-202001420

Lab Group- 6 Section - 8

1: Display ticket id for maximum ticket amount.

Ans:

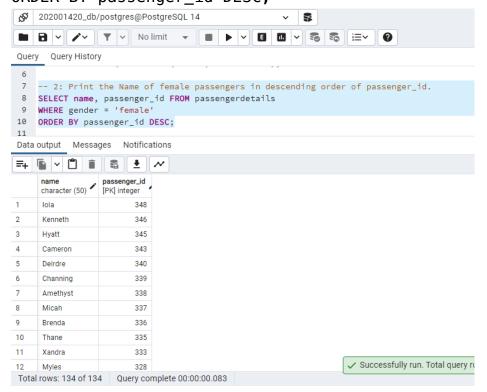
SELECT ticket_id FROM ticket
WHERE amount = (SELECT MAX(amount) FROM ticket);



2: Print the Name of female passengers in descending order of passenger id.

Ans:

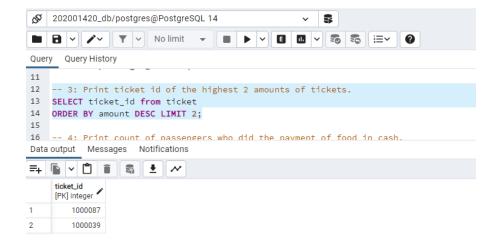
SELECT name, passenger_id FROM passengerdetails
WHERE gender = 'female'
ORDER BY passenger id DESC;



3: Print ticket id of the highest 2 amounts of tickets.

Ans:

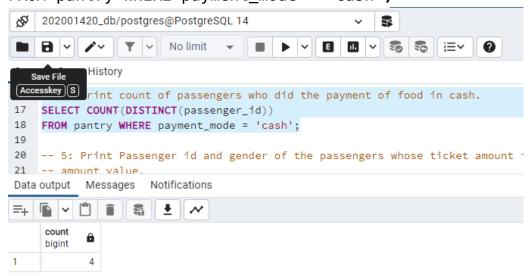
SELECT ticket_id from ticket
ORDER BY amount DESC LIMIT 2;



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

Ans:

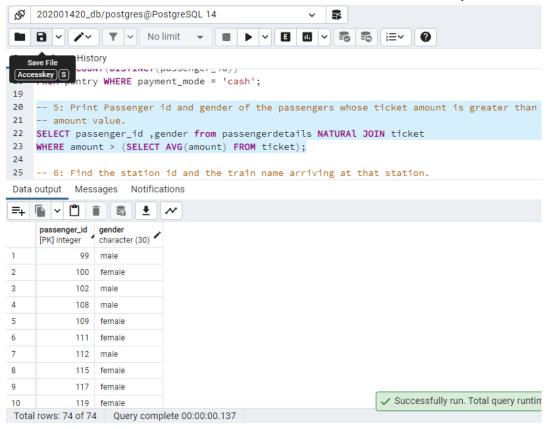
SELECT COUNT(DISTINCT(passenger_id))
FROM pantry WHERE payment mode = 'cash';



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

Ans:

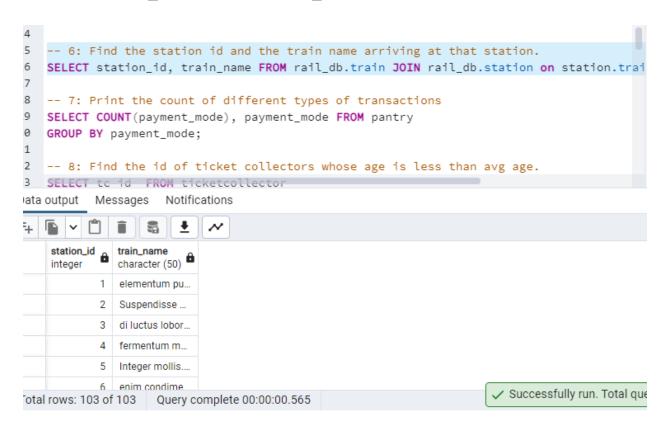
SELECT passenger_id ,gender from passengerdetails NATURAl JOIN ticket
WHERE amount > (SELECT AVG(amount) FROM ticket);



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

Ans:

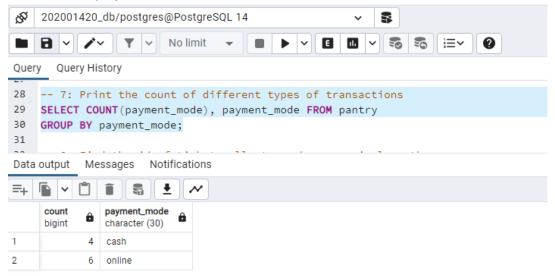
SELECT station_id, train_name FROM rail_db.train JOIN rail_db.station on station.train_id = train.train_id;



7: Print the count of different types of transactions

Ans:

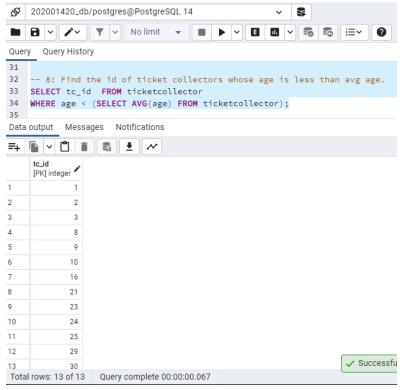
SELECT COUNT(payment_mode), payment_mode FROM pantry
GROUP BY payment_mode;



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

Ans:

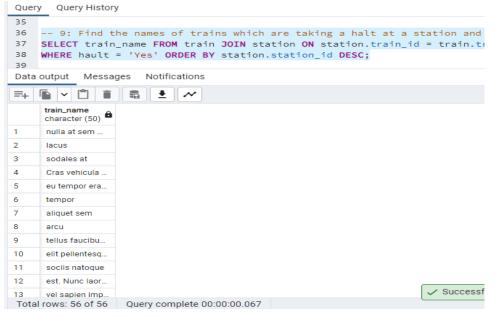
SELECT tc_id FROM ticketcollector
WHERE age < (SELECT AVG(age) FROM ticketcollector);</pre>



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

Ans:

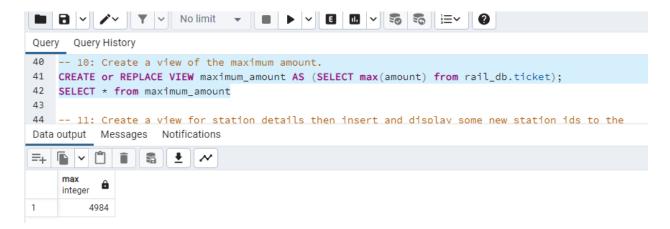
SELECT train_name FROM train JOIN station ON station.train_id = train.train_id WHERE hault = 'Yes' ORDER BY station.station_id DESC;



10: Create a view of the maximum amount.

Ans:

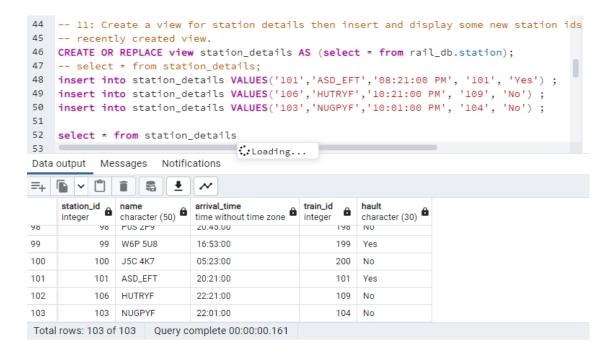
CREATE or REPLACE VIEW maximum_amount AS (SELECT max(amount) from rail_db.ticket);
SELECT * from maximum_amount



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

Ans:

```
CREATE OR REPLACE view station_details AS (select * from rail_db.station); insert into station_details VALUES('101','ASD_EFT','08:21:00 PM', '101', 'Yes'); insert into station_details VALUES('106','HUTRYF','10:21:00 PM', '109', 'No'); insert into station_details VALUES('103','NUGPYF','10:01:00 PM', '104', 'No'); select * from station_details
```



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

Ans:

```
CREATE OR REPLACE VIEW rate details as (SELECT AVG(rate) from rail db.pantry);
SELECT * FROM rate details;
INSERT INTO rail_db.pantry VALUES('9999', 'food1', '100', 'Yes', 'Online', '99');
INSERT INTO rail_db.pantry VALUES('9998', 'food2', '100', 'Yes', 'Online', '102');
INSERT INTO rail_db.pantry VALUES('9997', 'food3', '100', 'Yes', 'Online','101');
INSERT INTO rail_db.pantry VALUES('9996', 'food4', '100', 'Yes', 'Online','100');
SELECT * FROM rate details;
 53
  54 -- 12: Create a view of the rate and put the average there. add 4 more food items to
  -- table and then display the contents of the view with the updated values.
  56 CREATE OR REPLACE VIEW rate_details as (SELECT AVG(rate) from rail_db.pantry);
  57    SELECT * FROM rate_details;
        INSERT INTO rail_db.pantry VALUES('9999', 'food1', '100', 'Yes', 'Online', '99');
  59 INSERT INTO rail_db.pantry VALUES('9998', 'food2', '100', 'Yes', 'Online', '102');
  60 INSERT INTO rail_db.pantry VALUES('9997', 'food3', '100', 'Yes', 'Online', '101');
  61 INSERT INTO rail_db.pantry VALUES('9996', 'food4', '100', 'Yes', 'Online', '100');
  62   SELECT * FROM rate_details;
  63
  Data output Messages Notifications

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

Ans:

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CREATE or REPLACE view arrival AS
select train_name, station_id from rail_db.train inner join rail_db.station on
train.train id = station.train id
order by station_id ASC;
select * from arrival
    -- 13: Create a view with all the train names and the station_id on which it is arriv
     -- ascending order of station id.
 57 CREATE or REPLACE view arrival AS
    select train_name,station_id from rail_db.train inner join rail_db.station on train.t
 58
 59
    order by station_id ASC;
 60
    select * from arrival
 61
 62 -- 14: Display all the details of passengers whose payment mode was online for food i
```



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

Ans:

CREATE or REPLACE view online passengers AS select * from rail db.passengerdetails where passenger_id in (select passenger_id from rail_db.pantry where payment mode = 'online'); select * from online passengers; -- 14: Display all the details of passengers whose payment mode was online for food i -- create a view for the same. 64 CREATE or REPLACE view online_passengers AS select * from rail_db.passengerdetails where passenger_id in (select passenger_id from rail_db.pantry where payment_mode = select * from online_passengers; 69 70 -- 15: Display the name, ticket id and age of the passengers who are travelling in Data output Messages Notifications
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 ticket_id name character (50) passenger_id pnr_no age integer age age gender character (30) reservation_status train_id • â character (40) 59 male 207 1000009 Giselle confirm 109 102 41 male 1000004 201 101 77 female 1000003 103 99 199 34 male 1000001 101 108 208 49 male 1000010 Tate 110 waiting waiting 104 204 75 female 1000006 Hadassah 106 ✓ Successfully run. Total guery runtime: 170 msec. 6 rows affective.

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✓ Successfully run.

✓ Su Total rows: 6 of 6 Query complete 00:00:00.170

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.

Ans: CREATE or replace view passenger train AS select name,ticket_id,age from rail_db.passengerdetails where train_id in (select train_id from rail_db.train where seats_available>10) order by ticket id desc; select * from passenger_train; 70 -- 15: Display the name, ticket id and age of the passengers who are travelling in a 71 -- the number of seats available is greater than 10 in decreasing order of the ticket 72 CREATE or replace view passenger_train AS 73 select name, ticket_id, age from rail_db.passengerdetails where train_id in (74 select train_id from rail_db.train where seats_available>10 75) 76 order by ticket id desc: 77 78 select * from passenger_train; :.Loading... Data output Messages Notifications =+

