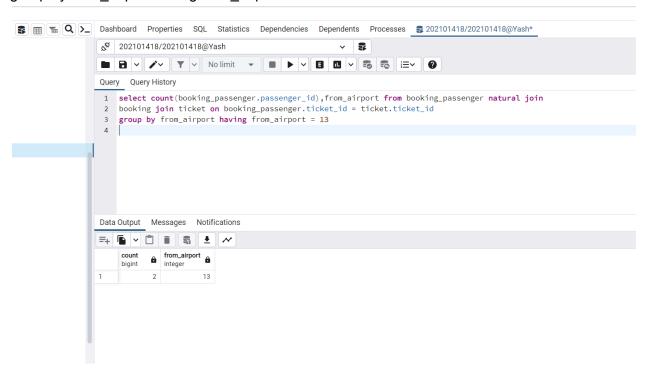
1)Number of passenger who will be flying from airport id 13:-2

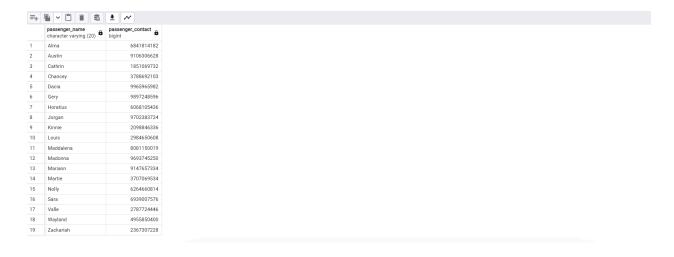
select count(booking_passenger.passenger_id),from_airport from booking_passenger natural join

booking join ticket on booking_passenger.ticket_id = ticket.ticket_id group by from_airport having from_airport = 13



2) Total Passengers whose check-in status was invalid

Select distinct passenger_name,passenger_contact from(checkin natural join ticket) as k natural join passenger where status = 'NOT OK';



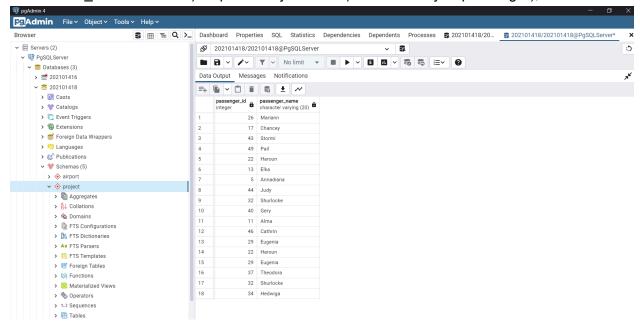
3)

People who missed their flight

select passenger_id,passenger_name from (((select ticket_id from ticket where status= 'confirmed'

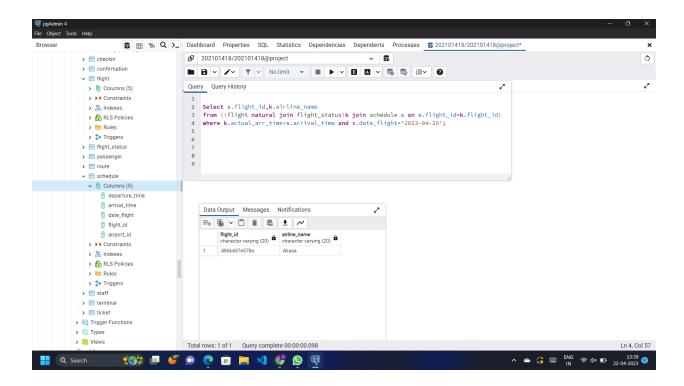
Except

select ticket id from checkin) as p natural join ticket) as k natural join passenger);



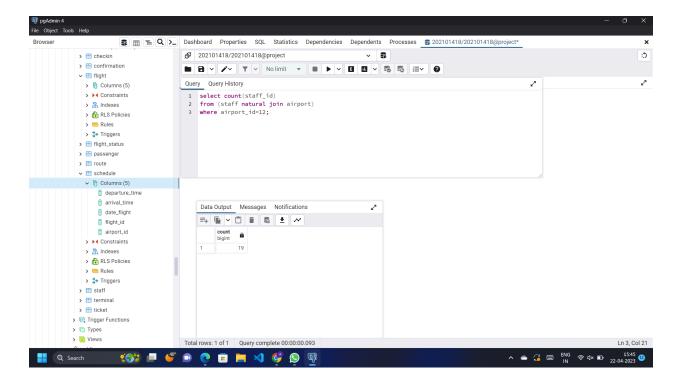
4) Project the flight_id and it's airlines name which got delayed on 20th April 2023

Select s.flight_id,k.airline_name from ((flight natural join flight_status)k join schedule s on s.flight_id=k.flight_id) where k.actual_arr_time>s.arrival_time and s.date_flight='2023-04-20';



5)Project the number of employees in airport with airport_id = 12

select count(staff_id)
from (staff natural join airport)
where airport_id=12;

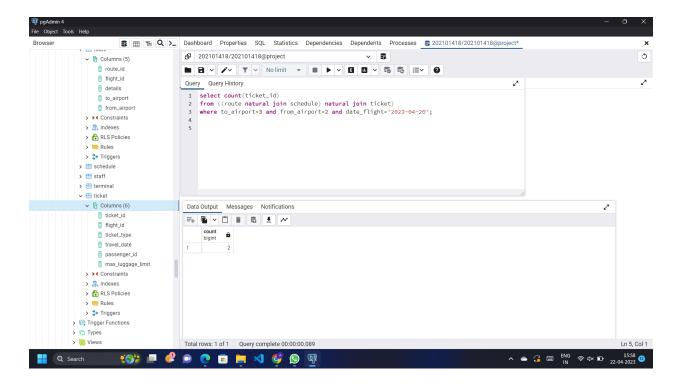


6) Project the number of tickets for a route from airport id = 2 and airport id = 3 on 20th April 2023

select count(ticket id)

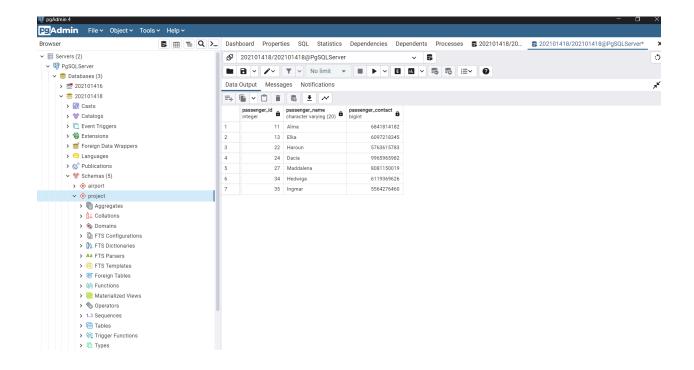
from ((route natural join schedule) natural join ticket)

where to_airport=3 and from_airport=2 and date_flight='2023-04-20';



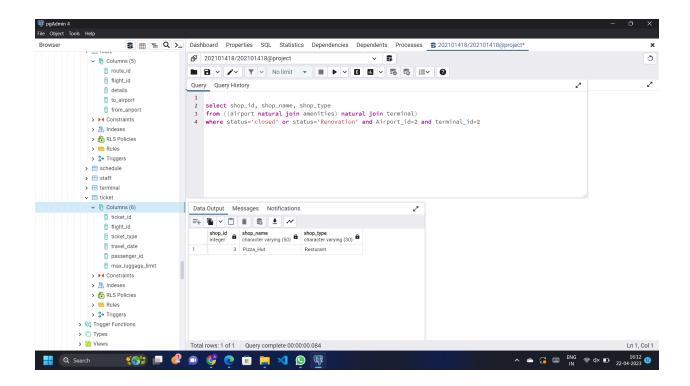
7)
List the people whose tickets are yet to be confirmed

select distinct passenger_id, passenger_name, and passenger_contact from ticket as c natural join booking_passenger natural join passenger where c.status = 'Not-Confirmed';



8) List the shop id, shop name and shop type which are closed or are under renovation in airport_id=2 and in the terminal id = 2.

select shop_id, shop_name, shop_type from ((airport natural join amenities) natural join terminal) where status='closed' or status='Renovation' and Airport_id=2 and terminal_id=2

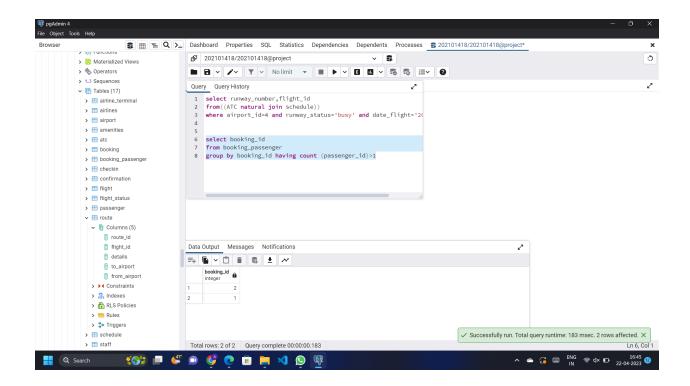


9) count airlines on particular airport

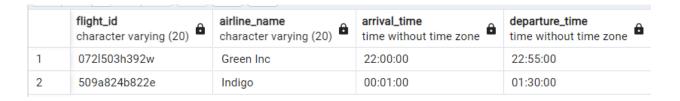
select count(airline_name),airport_id from airline_terminal group by airport_id;

	count bigint	airport_id integer
1	6	8
2	3	11
3	4	19
4	5	4
5	4	14
6	4	3
7	3	17
8	4	20
9	3	13
10	4	10
11	5	7
12	5	9
13	2	1
14	2	5
15	3	18
16	4	2
17	3	15
18	4	16
19	2	6
20	1	12

10) List the booking id of tickets having same booking id select booking_id from booking_passenger group by booking_id having count (passenger_id)>1

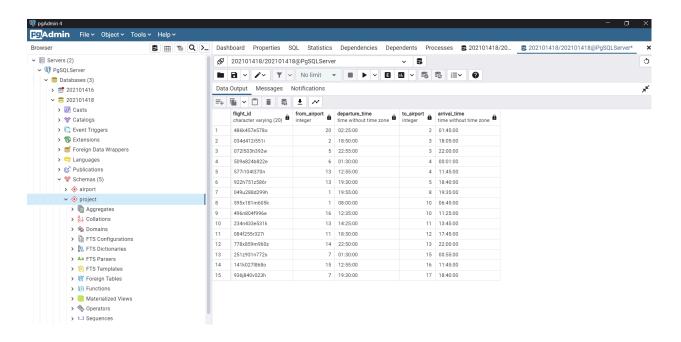


11) List flight details of flights arriving on a particular date at a particular airport select flight_id,airline_name,arrival_time,departure_time from(schedule natural join flight) where airport_id=2 and date_flight='2023-04-20';

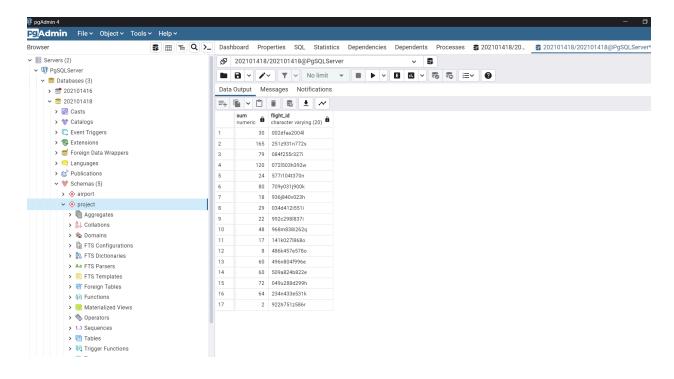


12)Give Schedule(Departure Time, Arrival Time, Source Airport, Destination Airport) Of A Flight (doubt - why only 15 flights and also how to write airport name instead of id)

select flight_id, r.from_airport, departure_time, r.to_airport, arrival_time from (schedule natural join (airport natural join route as r));

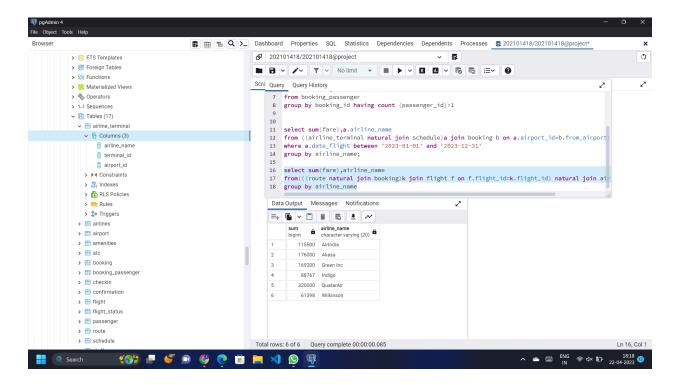


13) Total weight carried on a particular flight select sum(weight), flight_id from checkin natural join ticket group by flight_id;



14) List the total revenue of each airline

select sum(fare), airline_name from(((route natural join booking)p natural join route_flight k join flight f on f.flight_id=k.flight_id) natural join airline_terminal) group by airline_name



15) list passengers arriving on particular airport on a particular day

select airport_city,count(passenger_id) from (((route join airport on to_airport=airport_id)as k natural join route_flight) natural join ticket)as p join schedule on p.flight_id=schedule.flight_id) group by airport_city,date_flight having date_flight='2023-04-20';

	airport_city character varying (20)	count bigint	â
1	Ahmedabad		5
2	Delhi		1
3	Hyderabad		1
4	Kolkata		6
5	London		4
6	Paris		1

16) List flights having time interval greater than 6 hours

select * from flight_status as f1 natural join route join flight_status as f2 on f2.airport_id = route.to_airport and route.flight_id = f2.flight_id where f2.actual_arr_time - f1.actual_dep_time > '6:00:00';

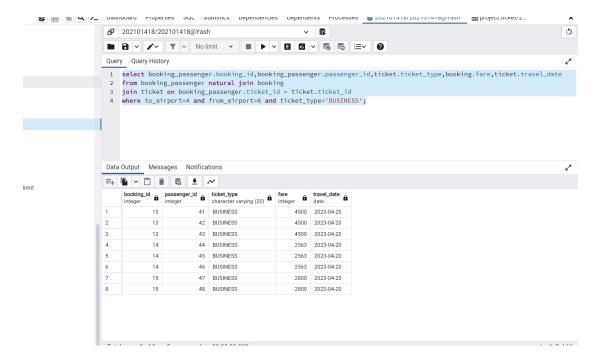


17) Find passenger who flew in business class from airport 6 to airport 4

select

booking_passenger.booking_id,booking_passenger.passenger_id,ticket.ticket_type,booking.fare,ticket.travel_date

from booking_passenger natural join booking join ticket on booking_passenger.ticket_id = ticket.ticket_id where to_airport=4 and from_airport=6 and ticket_type='BUSINESS';



18) Write the order of busiest airports based on number of passengers

select airport_id,count(passenger_id) from ticket natural join flight natural join flight_status group by airport_id order by count(passenger_id) desc

19)Busiest Airport in terms of flights

select airport_id,count(flight_id) from flight natural join flight_status group by airport_id order by count(flight_id) desc



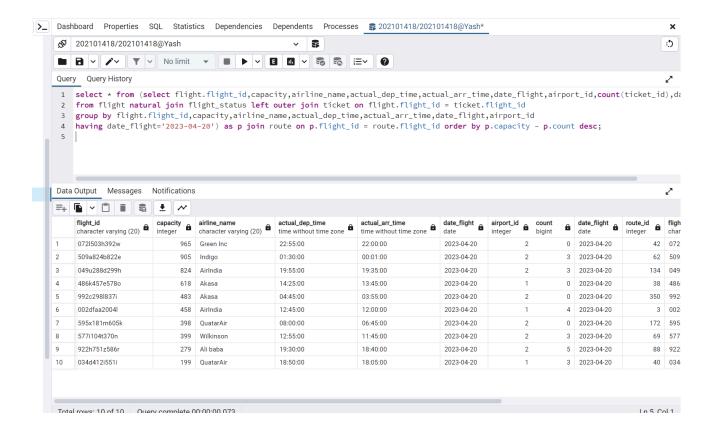
20) Descending order of capacity - count going flight's route on 20th april

select * from (select

flight_flight_id,capacity,airline_name,actual_dep_time,actual_arr_time,date_flight,airport_id,count (ticket_id),date_flight

from flight natural join flight_status left outer join ticket on flight.flight_id = ticket.flight_id group by

flight_flight_id,capacity,airline_name,actual_dep_time,actual_arr_time,date_flight,airport_id having date_flight='2023-04-20') as p join route on p.flight_id = route.flight_id order by p.capacity - p.count desc;



21)People affected by delay in flight schedule -

Select distinct s.flight_id,p.passenger_name,p.passenger_id from (((flight natural join flight_status)k natural join schedule s) natural join ticket) natural join(select ticket_id from checkin where status = 'confirmed') natural join booking_passenger natural join passenger p where k.actual_arr_time>s.arrival_time and s.date_flight='2023-04-20';

