

Assignment (30-12-2025)

1. select f.flight_id, f.from_location, f.to_location, datename(month, afd.flight_departure_date) as month_name , avg(price) as Average_Price from air_flight f join air_flight_details afd on f.FLIGHT_ID=afd.FLIGHT_ID where f.airline_name='Air India' group by f.flight_id, f.from_location, f.to_location, datename(month, afd.flight_departure_date), month(afd.flight_departure_date) order by f.flight_id asc, month(afd.flight_departure_date) asc;

	flight_id	from_location	to_location	month_name	Average_Price
1	F101	Hyderabad	Delhi	January	5500.000000

2. select p.profile_id, p.first_name, p.address, count(t.ticket_id) as no_of_tickets from air_passenger_profile p join air_ticket_info t on p.profile_id = t.profile_id join air_flight_details fd on t.flight_id = fd.flight_id join air_flight f on fd.flight_id = f.flight_id where f.airline_name = 'air india' group by p.profile_id, p.first_name, p.address having count(t.ticket_id) = (select min(ticket_count) from (select count(t2.ticket_id) as ticket_count from air_ticket_info t2 join air_flight_details fd2 on t2.flight_id = fd2.flight_id join air_flight f2 on fd2.flight_id = f2.flight_id where f2.airline_name = 'air india' group by t2.profile_id) x) order by p.first_name asc;_

	profile_id	first_name	address	no_of_tickets
1	P102	Sita	Delhi	1

- 3 select f.from_location, f.to_location, datename(month, fd.flight_departure_date) as month_name, count(fd.flight_departure_date) as no_of_services from air_flight f join air_flight_details fd on f.flight_id = fd.flight_id group by f.from_location, f.to_location, datename(month, fd.flight_departure_date), month(fd.flight_departure_date) order by f.from_location asc, f.to_location asc, month(fd.flight_departure_date) asc;

	FROM_LOCATION	TO_LOCATION	Month_Name	No_of_Services
1	Bangalore	Kolkata	March	1
2	Chennai	Bangalore	January	1
3	Delhi	Mumbai	February	1
4	Hyderabad	Delhi	January	1
5	Mumbai	Goa	January	1

4 select p.profile_id, p.first_name, p.address, count(t.ticket_id) as no_of_tickets from air_passenger_profile p join air_ticket_info t on p.profile_id = t.profile_id join air_flight_details fd on t.flight_id = fd.flight_id join air_flight f on fd.flight_id = f.flight_id where f.airline_name = 'air india' group by p.profile_id, p.first_name, p.address having count(t.ticket_id) = (select max(ticket_count) from (select count(t2.ticket_id) as ticket_count from air_ticket_info t2 join air_flight_details fd2 on t2.flight_id = fd2.flight_id join air_flight f2 on fd2.flight_id = f2.flight_id where f2.airline_name = 'air india' group by t2.profile_id) x) order by p.first_name asc;

	profile_id	first_name	address	no_of_tickets
1	P101	Ravi	Hyderabad	3

5. select p.profile_id, p.first_name, p.last_name, f.flight_id, fd.flight_departure_date, count(t.ticket_id) as no_of_tickets from air_passenger_profile p join air_ticket_info t on p.profile_id = t.profile_id join air_flight_details fd on t.flight_id = fd.flight_id join air_flight f on fd.flight_id = f.flight_id where f.from_location = 'chennai' and f.to_location = 'hyderabad' group by p.profile_id, p.first_name, p.last_name, f.flight_id, fd.flight_departure_date order by p.profile_id asc, f.flight_id asc, fd.flight_departure_date asc;

	profile_id	first_name	last_name	flight_id	flight_departure_date	no_of_tickets
1	P101	Ravi	Kumar	F201	2025-01-10	2
2	P102	Sita	Rao	F201	2025-01-10	1

6. select f.flight_id, f.from_location, f.to_location, fd.price from air_flight f join air_flight_details fd on f.flight_id = fd.flight_id where month(fd.flight_departure_date) = 4;

	flight_id	from_location	to_location	price
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7. select f.flight_id, f.from_location, f.to_location, avg(fd.price) as price from air_flight f join air_flight_details fd on f.flight_id = fd.flight_id group by f.flight_id, f.from_location, f.to_location order by f.flight_id asc, f.from_location asc, f.to_location asc;

	flight_id	from_location	to_location	price
1	F101	Hyderabad	Delhi	5500.000000
2	F102	Delhi	Mumbai	6200.500000
3	F103	Chennai	Bangalore	4500.000000
4	F104	Mumbai	Goa	7800.750000
5	F105	Bangalore	Kolkata	9000.000000
6	F201	Chennai	Hyderabad	5500.000000

8. select p.profile_id, (p.first_name + ' ' + p.last_name) as customer_name, p.address from air_passenger_profile p join air_ticket_info t on p.profile_id = t.profile_id join air_flight_details fd on t.flight_id = fd.flight_id join air_flight f on fd.flight_id = f.flight_id where f.from_location = 'chennai' and f.to_location = 'hyderabad' group by p.profile_id, p.first_name, p.last_name, p.address order by p.profile_id asc;

	profile_id	customer_name	address
1	P101	Ravi,Kumar	Hyderabad
2	P102	Sita,Rao	Delhi

9. select top 1 with ties profile_id from air_ticket_info group by profile_id order by count(ticket_id) desc, profile_id asc;

	profile_id
1	P101

10. select f.flight_id, f.from_location, f.to_location, count(t.ticket_id) as no_of_tickets
from air_flight f join air_flight_details fd on f.flight_id = fd.flight_id join air_ticket_info t on
fd.flight_id = t.flight_id group by f.flight_id, f.from_location, f.to_location having
count(t.ticket_id) > 0 order by f.flight_id asc;

	flight_id	from_location	to_location	no_of_tickets
1	F101	Hyderabad	Delhi	1
2	F102	Delhi	Mumbai	1
3	F103	Chennai	Bangalore	1
4	F104	Mumbai	Goa	1
5	F105	Bangalore	Kolkata	1
6	F201	Chennai	Hyderabad	3