

Day-3:

1.1:

Command:

```
select af.flight_id,af.from_location,af.to_location,datetime(month,
ati.flight_departure_date) as month_name,avg(afd.price) avg_price
from air_ticket_info ati join air_flight af on ati.FLIGHT_ID=af.FLIGHT_ID
join air_flight_details afd on afd.FLIGHT_ID=af.FLIGHT_ID
group by
af.FLIGHT_ID,af.FROM_LOCATION,af.TO_LOCATION,datetime(month,ati.flight_departure_date),MONTH(ati.flight_departure_date)
order by af.FLIGHT_ID,MONTH(ati.flight_departure_date);
```

o/p:

Results		Messages			
	flight_id	from_location	to_location	month_name	avg_price
1	1	Delhi	Mumbai	January	5500.000000
2	2	Hyderabad	Chennai	January	4200.000000
3	3	Bangalore	Delhi	January	6200.000000
4	4	Mumbai	Kolkata	January	5800.000000
5	5	Pune	Hyderabad	January	4000.000000

1.2:

```
Command:select ap.PROFILE_ID,ap.FIRST_NAME,ap.address,count(ati.ticket_id) as
no_of_tic from air_passenger_profile ap join air_ticket_info ati on
ati.PROFILE_ID=ap.PROFILE_ID group by ap.PROFILE_ID,ap.FIRST_NAME,ap.ADDRESS having
count(ati.ticket_id) = (select min(ticket_count) from (select count(ticket_id) as
ticket_count from air_ticket_info group by profile_id)t) order by ap.FIRST_NAME;
```

Results		Messages		
	PROFILE_ID	FIRST_NAME	address	no_of_tic
1	5	Amit	Bangalore	1
2	2	Anita	Mumbai	1
3	4	Priya	Chennai	1
4	1	Rahul	Delhi	1
5	3	Suresh	Hyderabad	1

o/p:

1.3:

```
Command: select
        af.from_location,
        af.to_location,
        datename(month, ati.flight_departure_date) as month_name,
        count(ati.flight_departure_date) as no_of_services
from air_ticket_info ati
join air_flight af
    on ati.flight_id = af.flight_id
group by
        af.from_location,
        af.to_location,
        datename(month, ati.flight_departure_date),
        month(ati.flight_departure_date)
order by
        af.from_location asc,
        af.to_location asc,
        month(ati.flight_departure_date) asc;
```

o/p:

	from_location	to_location	month_name	no_of_services
1	Bangalore	Delhi	January	1
2	Delhi	Mumbai	January	1
3	Hyderabad	Chennai	January	1
4	Mumbai	Kolkata	January	1
5	Pune	Hyderabad	January	1

1.4:

```
Command: select ap.PROFILE_ID, ap.FIRST_NAME, ap.address, count(ati.ticket_id) as
no_of_tic
from air_passenger_profile ap
join air_ticket_info ati on ati.PROFILE_ID=ap.PROFILE_ID
group by ap.PROFILE_ID, ap.FIRST_NAME, ap.ADDRESS
having count(ati.ticket_id) = (
    select max(ticket_count)
    from (
        select count(ticket_id) as ticket_count
        from air_ticket_info
        group by profile_id
    ) t
)
order by ap.FIRST_NAME;
```

o/p:

	PROFILE_ID	FIRST_NAME	address	no_of_tic
1	5	Amit	Bangalore	1
2	2	Anita	Mumbai	1
3	4	Priya	Chennai	1
4	1	Rahul	Delhi	1
5	3	Suresh	Hyderabad	1

1.5:

Command:

```
select
ap.profile_id,ap.first_name,ap.last_name,af.flight_id,afd.flight_departure_date as
departure_date,
count(at.ticket_id) as no_of_tickets
from air_passenger_profile ap
join air_ticket_info at on ap.profile_id = at.profile_id
join air_flight af on at.flight_id = af.flight_id
join air_flight_details afd on af.flight_id = afd.flight_id
where af.from_location = 'pune' and af.to_location = 'hyderabad'
group by
ap.profile_id,ap.first_name,ap.last_name,af.flight_id,afd.flight_departure_date
order by ap.profile_id asc,af.flight_id asc,afd.flight_departure_date asc;
```

o/p:

	PROFILE_ID	FIRST_NAME	LAST_NAME	FLIGHT_ID	Departure_Date	No_of_Tickets
1	5	Amit	Kumar	5	2025-01-20	1

1.6:

Command:

```
select af.flight_id ,af.from_location,af.to_location,afd.price
from air_flight af join air_flight_details afd on af.flight_id = afd.flight_id
where month(afd.flight_departure_date) = 1;
```

o/p:

	flight_id	from_location	to_location	price
1	1	Delhi	Mumbai	5500.00
2	2	Hyderabad	Chennai	4200.00
3	3	Bangalore	Delhi	6200.00
4	4	Mumbai	Kolkata	5800.00
5	5	Pune	Hyderabad	4000.00

1.7:

Command

```
select af.flight_id,af.from_location,af.to_location,avg(afd.price) as price
from air_flight af join air_flight_details afd on af.flight_id = afd.flight_id
group by af.flight_id , af.from_location ,af.to_location
order by af.flight_id asc , af.from_location asc,af.to_location asc;
```

o/p:

	flight_id	from_location	to_location	Price
1	1	Delhi	Mumbai	5500.000000
2	2	Hyderabad	Chennai	4200.000000
3	3	Bangalore	Delhi	6200.000000
4	4	Mumbai	Kolkata	5800.000000
5	5	Pune	Hyderabad	4000.000000

1.8:

Command:

```
select distinct app.profile_id,concat(app.first_name,',',app.last_name) as
customer_name,
app.address from air_passenger_profile app
join air_ticket_info ati on ati.profile_id = app.profile_id
join air_flight af on ati.flight_id = af.flight_id
where af.from_location = 'pune' and af.to_location = 'hyderabad'
order by app.profile_id asc;
```

o/p:

	profile_id	customer_name	address
1	5	Amit,Kumar	Bangalore

1.9:

Command:

```
select profile_id from air_ticket_info
group by profile_id
having count(*) = (
select max(ticket_count)
from ( select count(*) as ticket_count
from air_ticket_info
group by profile_id
) as t
)
order by profile_id asc;
```

o/p:

	PROFILE_ID
1	1
2	2
3	3
4	4
5	5

1.10:

Command:

```
select af.flight_id, af.from_location, af.to_location,
count(ati.ticket_id) as no_of_tickets
from air_flight af join air_ticket_info ati on af.flight_id = ati.flight_id
where af.airline_name = 'indigo'
group by af.flight_id,af.from_location,af.to_location
having count(ati.ticket_id) >= 1
order by af.flight_id asc;
```

o/p:

	flight_id	from_location	to_location	no_of_tickets
1	2	Hyderabad	Chennai	1