1) select flight_id,from_location,to_location,month_name,avg(price) as average_price
from (select   f.flight_id,
   f.from_location,
   f.to_location,   datename(month,fd.flight_departure_date)
as month_name,   month(fd.flight_departure_date) as
month_no,   fd.price   from air_flight f,   air_flight_details
fd   where f.flight_id=fd.flight_id
   and f.airline_name='indigo'
) t
group by
flight_id,from_location,to_location,month_name,month_no order
by flight_id asc,month_no asc;

	flight_id	from_location	to_location	month_name	average_price
1	f101	hyderabad	delhi	January	4500.000000
2	f107	pune	goa	January	3900.000000
3	f110	delhi	jaipur	January	2800.000000

Query executed successfully.   praveen (16.0 RTM)

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 f
on t.flight_id=f.flight_id where
f.airline_name='ABC Airlines' 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 f2   on t2.flight_id=f2.flight_id
   where f2.airline_name='ABC Airlines'
 group by t2.profile_id
)x
)
 order by p.first_name asc;

	profile_id	first_name	address	no_of_tickets
1	p009	meena	kochi	1
2	p010	ravi	vijayawada	1
3	p011	suresh	nellore	1

3)

```sql
select
    t.from_location,
    t.to_location,
    t.month_name,    count(t.flight_departure_date)
as no_of_services from (
    select
        f.from_location,
        f.to_location,        datename(month,
fd.flight_departure_date) as month_name,
month(fd.flight_departure_date) as month_no,
        fd.flight_departure_date
from air_flight f    join
air_flight_details fd
        on f.flight_id = fd.flight_id
) t
group by
    t.from_location,
    t.to_location,
    t.month_name,
    t.month_no order
by
    t.from_location,
    t.to_location,
    t.month_no;
```

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 f
on t.flight_id=f.flight_id where
f.airline_name='ABC Airlines' 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 f2   on t2.flight_id=f2.flight_id
where f2.airline_name='ABC Airlines'
 group by t2.profile_id
)x
)
order by p.first_name asc;

	profile_id	first_name	address	no_of_tickets
1	p008	kiran	ahmedabad	2

5)
select
    s.profile_id,
    s.first_name,
    s.last_name,

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

⊞ Results 📄 Messages

	profile_id	first_name	last_name	flight_id	departure_date	no_of_tickets
1	p008	kiran	patel	f108	2025-02-05	1
2	p009	meena	nair	f108	2025-04-15	1

```sql
6) with flightcte as (
  select
      f.flight_id,
      f.from_location,
      f.to_location,       fd.price
as ticket_price,
fd.flight_departure_date    from
air_flight f    join
air_flight_details fd       on
```

```sql
f.flight_id = fd.flight_id ) select
flight_id,    from_location,
to_location,    ticket_price
from flightcte where
month(flight_departure_date) =
4;
```

```
Results    Messages
     flight_id  from_location  to_location  ticket_price
1    f108       chennai        hyderabad    4500.00
2    f112       chennai        bangalore    3100.00
```

```sql
7) select
   s.flight_id,
   s.from_location,
   s.to_location,
avg(s.price) as avg_price
from (
   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
) s
group by
   s.flight_id,
   s.from_location,
   s.to_location order
by
   s.flight_id,
   s.from_location,
   s.to_location;
```

	flight_id	from_location	to_location	avg_price
1	f101	hyderabad	delhi	4500.000000
2	f102	mumbai	chennai	5200.000000
3	f103	bengaluru	kolkata	6100.000000
4	f104	delhi	pune	4300.000000
5	f105	hyderabad	mumbai	4800.000000
6	f106	chennai	jaipur	5500.000000
7	f107	pune	goa	3900.000000
8	f108	chennai	hyderabad	4350.000000
9	f109	hyderabad	mumbai	5750.000000
10	f110	delhi	jaipur	2800.000000
11	f111	mumbai	goa	3800.000000
12	f112	chennai	bangalore	3100.000000

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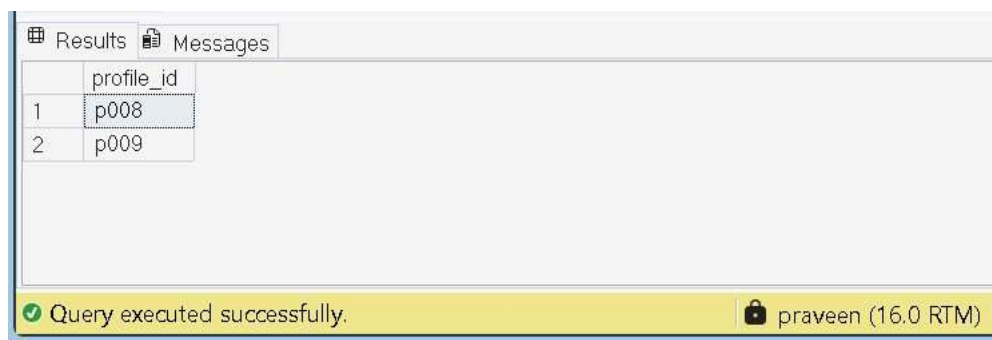   s.profile_id;

	profile_id	customer_name	address
1	p008	kiran patel	ahmedabad
2	p009	meena nair	kochi

9) select profile_id from air_ticket_info group by profile_id
having(count(ticket_id))=(

select max(ticket_count) from
(
select count(ticket_id) as ticket_count
from air_ticket_info group by
profile_id
)x
)
order by profile_id asc;

	profile_id
1	p008
2	p009

Results / Messages

Query executed successfully. praveen (16.0 RTM)

10)

```
select
   f.flight_id,
   f.from_location,
   f.to_location,
   t.no_of_tickets from
air_flight f
join (
select
     flight_id,     count(ticket_id)
as no_of_tickets     from
air_ticket_info
   group by flight_id
) t
   on f.flight_id = t.flight_id where
f.airline_name = 'ABC Airlines'   and
t.no_of_tickets >= 1 order by
   f.flight_id asc;
```

	flight_id	from_location	to_location	no_of_tickets
1	f108	chennai	hyderabad	2
2	f109	hyderabad	mumbai	2
3	f112	chennai	bangalore	1

✅ Query executed successfully.

🔒 praveen (16.0 RTM)