

Experiment 8

Data Analytics

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--Q.1 How many aircrafts are there in the PLANES table?

```
select count (AIRCRAFT_TYPE) as plane_count  
from PLANES
```

--Q.2 Write a query that will list all the planes that have seat count 150 or more, ordered from lowest to highest number of seats. What is the TAIL_NUMBER of the plane with the second lowest number of seats in that list?

```
select * from PLANES where SEAT_COUNT>=150  
order by SEAT_COUNT DESC
```

--Q.3 Write a query that provides the number of flights flown by each aircraft. Which aircraft flew the most flights?

```
select TAIL_NUMBER ,count(*) as no_flights  
from FLIGHTS  
group by TAIL_NUMBER  
order by no_flights desc
```

--Q.4 Write a query that provides a list of planes that flew more than 400 passengers across all flights. How many planes are there in that list?

```
select TAIL_NUMBER,sum(PASSENGER_COUNT)
from FLIGHTS
group by TAIL_NUMBER
having sum(PASSENGER_COUNT) >400
```

--Q.5 Write a query that provides the total number of flights by country. How many flights originated in the United States?

```
select A.*,B.*
from FLIGHTS A
left join AIRPORTS B
on A.DEPARTURE_AIRPORT=B.AIRPORT
where B.COUNTRY='UNITED STATES'
```

--Q.6 Write a query that provides the total number of flights by regionality. Which regionality has the second highest number of flights?

```
select REGIONALITY ,count(*) as no_flights
from FLIGHTS A
left join CITY_PAIRS B
on A.DEPARTURE_AIRPORT =B.DEPARTURE_AIRPORT
and
A.ARRIVAL_AIRPORT=B.ARRIVAL_AIRPORT
group by REGIONALITY
```

--Q.7 Which flight number had the lowest passenger count (find using sub query) ?

```
select * from FLIGHTS
```

```
where
```

```
FLIGHTS.PASSENGER_COUNT=(select min(FLIGHTS.PASSENGER_COUNT)from FLIGHTS)
```

--Q.8What is the average distance flown by 'Air India' flights?

```
select A.DISTANCE,B.TAIL_NUMBER,C.AIRLINE
```

```
from CITY_PAIRS A
```

```
left join FLIGHTS B
```

```
on (A.ARRIVAL_AIRPORT=B.ARRIVAL_AIRPORT
```

```
and A.ARRIVAL_AIRPORT=B.DEPARTURE_AIRPORT)
```

```
left join PLANES C
```

```
on B.TAIL_NUMBER=C.TAIL_NUMBER
```

```
where C.AIRLINE='AIR INDIA'
```