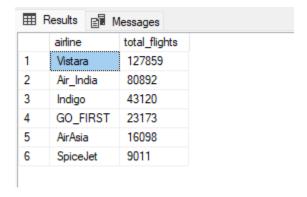
Airline Flights SQL Queries

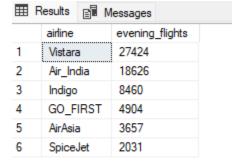
1) Total Flights Per Airline:

```
select airline, count(*) as total_flights
from airlines_flights_data
group by airline
order by total_flights DESC;
```



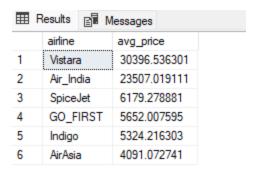
2) Count Evening Flights:

```
select airline, COUNT(*) as evening_flights from airlines_flights_data
where departure_time= 'Evening'
group by airline
order by evening_flights DESC;
```



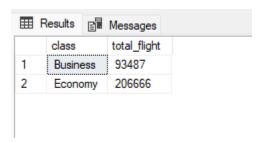
3) Average Ticket Price by Airline:

```
SELECT airline, AVG(cast(price as decimal(10,2))) AS avg_price
FROM airlines_flights_data
GROUP BY airline
ORDER BY avg_price DESC;
```



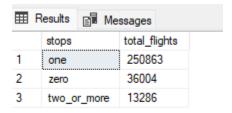
4) Economy vs Business flights:

SELECT class, count(flight) as total_flight from airlines_flights_data
where class IN ('Economy', 'business')
group by class;



5) Flights by Number of Stops:

SELECT stops, count(*) as total_flights as AVG_price from airlines_flights_data
group by stops
order by total_flights DESC;



6) Busiest Routes:

select source_city, destination_city, COUNT(*) as flight from airlines_flights_data
group by source_city, destination_city
order by flight DESC;

⊞ F	Results 🗐 N	lessages		
	source_city	destination_city	flight	
1	Delhi	Mumbai	15289	
2	Mumbai	Delhi	14809	
3	Delhi	Bangalore	14012	
4	Bangalore	Delhi	13756	
5	Bangalore	Mumbai	12939	
6	Mumbai	Bangalore	12885	
7	Mumbai	Kolkata	12602	
8	Delhi	Kolkata	11934	
9	Kolkata	Mumbai	11467	
10	Delhi	Chennai	10780	
11	Kolkata	Delhi	10506	
12	Mumbai	Hyderabad	10470	
13	Mumbai	Chennai	10130	
14	Hyderabad	Mumbai	10064	
15	Bangalore	Kolkata	10028	
16	Kolkata	Bangalore	9824	
17	Chennai	Delhi	9783	
18	Chennai	Mumbai	9338	
19	Delhi	Hyderabad	9328	
20	Bangalore	Hyderabad	8928	
21	Hyderabad	Delhi	8506	
22	Hyderabad	Kolkata	7987	
23	Kolkata	Hyderabad	7897	
24	Hyderabad	Bangalore	7854	
			7054	
24	Hyderabad	Bangalore	7854	
25	Chennai	Kolkata	6983	
26	Kolkata	Chennai	6653	
27	Chennai	Bangalore	6493	
28	Bangalore	Chennai	6410	
29	Hyderabad	Chennai	6395	
30	Chennai	Hyderabad	6103	

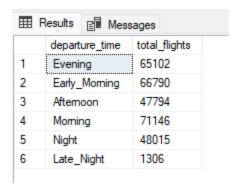
7) Average Duration by Route:

```
select source_city, destination_city , AVG(cast(duration as float)) as AVG_duration
from airlines_flights_data
group by source_city, destination_city
order by AVG_duration DESC;
```

		Messages	N/0 1
	source_city	destination_city	AVG_duration
1	Kolkata	Chennai	14.7741815637829
2	Chennai	Kolkata	14.5157740359557
3	Bangalore	Chennai	14.4802075091372
4	Bangalore	Hyderabad	14.1624327835136
5	Chennai	Bangalore	13.9525935638122
6	Kolkata	Hyderabad	13.8531075149484
7	Kolkata	Bangalore	13.792946875241
8	Hyderabad	Kolkata	13.5353224100332
9	Hyderabad	Chennai	13.2932384689121
10	Mumbai	Hyderabad	13.2633104122471
11	Chennai	Hyderabad	13.153984931733
12	Bangalore	Kolkata	13.0991434048598
13	Kolkata	Mumbai	12.9919324811505
14	Mumbai	Kolkata	12.8368481154897
15	Delhi	Kolkata	12.7359661476605
16	Mumbai	Chennai	12.6659002875646
17	Delhi	Hyderabad	12.5183501187105
18	Delhi	Chennai	12.4339647457639
19	Chennai	Mumbai	12.3746562441326
20	Hyderabad	Bangalore	12.0933167864371
21	Hyderabad	Mumbai	11.9629232957959
22	Mumbai	Bangalore	11.6120225161788
23	Kolkata	Delhi	11.6049885756171
24	Chennai	Delhi	11.1493744312541
24	Chennai	Delhi	11.1493744312541
25	Bangalore	Mumbai	10.9050722563964
26	Hyderabad	Delhi	10.8298166025226
27	Delhi	Mumbai	10.3677742137381
28	Delhi	Bangalore	10.3541250384402
29	Mumbai	Delhi	9.81805726844943
30	Bangalore	Delhi	9.77995566082195

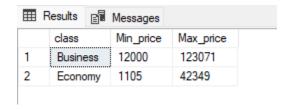
8) Count flights per departure time:

select departure_time, COUNT(*) as total_flights
from airlines_flights_data
group by departure_time;



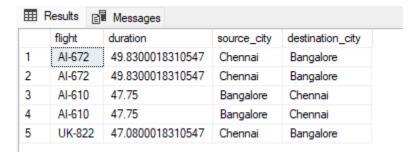
9) Minimum and maximum flight price per class:

```
select class, MIN(price) as Min_price , MAX(price) as Max_price
from airlines_flights_data
group by class;
```



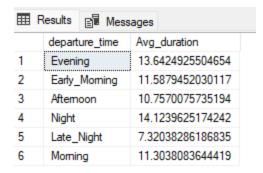
10) Flights with the longest duration:

select Top 5 flight, duration, source_city, destination_city
from airlines_flights_data
order by duration DESC;



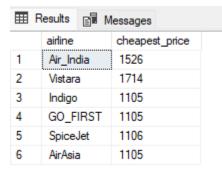
11) Average duration of flights by departure time:

```
select departure_time, AVG(duration) as Avg_duration
from airlines_flights_data
group by departure_time;
```



12) The cheapest flight per airline:

SELECT airline, MIN(price) AS cheapest_price from airlines_flights_data group by airline;



13) The most expensive flight per route:

```
SELECT source_city,destination_city ,MAX(price) AS highest_price from airlines_flights_data group by source_city,destination_city order by highest_price DESC;
```

⊞ Results					
	source_city	destination_city	highest_price		
1	Kolkata	Delhi	123071		
2	Delhi	Kolkata	117307		
3	Hyderabad	Mumbai	115211		
4	Kolkata	Hyderabad	114705		
5	Chennai	Mumbai	114704		
6	Mumbai	Bangalore	114523		
7	Delhi	Hyderabad	114507		
8	Mumbai	Chennai	111964		
9	Bangalore	Delhi	111883		
10	Mumbai	Delhi	111437		
11	Kolkata	Mumbai	110936		
12	Chennai	Bangalore	107597		
13	Kolkata	Bangalore	105638		
14	Bangalore	Kolkata	105168		
15	Chennai	Kolkata	104624		
16	Delhi	Chennai	104466		
17	Bangalore	Mumbai	103819		
18	Chennai	Delhi	103683		
19	Mumbai	Kolkata	100909		
20	Mumbai	Hyderabad	99677		
21	Hyderabad	Bangalore	97767		
22	Hyderabad	Kolkata	97381		
23	Delhi	Mumbai	95657		
24	Hyderabad	Chennai	95208		
25	Kolkata	Chennai	95183		
26	Chennai	Hyderabad	92752		
27	Bangalore	Chennai	90720		
28	Hyderabad	Delhi	86203		
29	Delhi	Bangalore	85353		
30	Bangalore	Hyderabad	83239		

14) Flights departing within the next 7 days:

```
SELECT flight, airline, departure_time, days_left
from airlines_flights_data
where days_left <= 7
order by days_left ASC;</pre>
```

ш		Messages		
	flight	airline	departure_time	days_left
1	UK-859	Vistara	Moming	1
2	SG-8107	7 SpiceJet	Early_Moming	1
3	15-1529	AirAsia	Moming	1
4	SG-8709	SpiceJet	Evening	1
5	6E-2247	Indigo	Moming	1
6	UK-833	Vistara	Early_Moming	1
7	AI-891	Air_India	Evening	1
8	SG-8157	7 SpiceJet	Early_Moming	1
9	6E-2005	Indigo	Moming	1
10	UK-839	Vistara	Afternoon	1
11	AI-891	Air_India	Evening	1
12	15-764	AirAsia	Early_Moming	1
13	6E-6205	Indigo	Afternoon	1
14	6E-6238	Indigo	Moming	1
15	6E-2178	Indigo	Early_Moming	1
16	UK-995	Vistara	Moming	1
17	AI-542	Air_India	Moming	1
18	6E-2485	Indigo	Aftemoon	1
19	AI-504	Air_India	Night	1
20	UK-963	Vistara	Moming	1
21	AI-560	Air_India	Moming	1
22	AI-439	Air_India	Early_Moming	1
23	AI-542	Air_India	Moming	1
24	UK-945	Vistara	Moming	1