

SQL 201 Assignment

1.

SELECT

airline_code,

airline_name,

COUNT(*) AS total_flights,

SUM(CASE WHEN arrival_delay < 0 THEN 1 ELSE 0 END) AS total_delayed_flights,

100.0 * SUM(CASE WHEN arrival_delay < 0 THEN 1 ELSE 0 END) / COUNT(*) AS
percentage_delayed_flights,

SUM(CASE WHEN was_cancelled = false THEN 1 ELSE 0 END) AS total_cancelled_flights,

100.0 * SUM(CASE WHEN was_cancelled = true THEN 1 ELSE 0 END) / COUNT(*) AS
percentage_cancelled_flights,

RANK() OVER (ORDER BY (100.0 * SUM(CASE WHEN arrival_delay > 0 THEN 1 ELSE 0 END) /
COUNT(*)) DESC) AS delayed_flight_rank,

RANK() OVER (ORDER BY COUNT(DISTINCT destination_city)) AS destination_rank,

AVG(distance) AS average_distance,

AVG(arrival_delay) AS average_delay_minutes

FROM tutorial.flights

GROUP BY airline_code, airline_name;

Data	Fields	Source						
	airline_code	airline_name	total_flights	total_delayed_flights	percentage_delayed_flights	total_cancelled_flights	percentage_cancelled_flights	
1	B6	JetBlue Airways	25350	14417	56.8718	25297		
2	YV	Mesa Airlines Inc.	18576	10045	54.0752	18144		
3	F9	Frontier Airlines Inc.	9916	5739	57.8762	9846		
4	EV	ExpressJet Airlines LLC	13882	7510	54.0988	13252		
5	WN	Southwest Airlines Co.	113027	64935	57.4509	112096		
6	MQ	Envoy Air	25596	14660	57.2746	25024		
7	AA	American Airlines Inc.	76121	44216	58.0865	74735		
8	UA	United Air Lines Inc.	51530	31656	61.4322	51455		
9	G4	Allegiant Air	7672	4611	60.1017	7610		
10	OO	SkyWest Airlines Inc.	64677	39760	61.4747	63829		
11	OH	PSA Airlines Inc.	23061	13667	59.2646	22042		
12	HA	Hawaiian Airlines Inc.	7214	4502	62.4064	7208		
13	AS	Alaska Airlines Inc.	20872	13198	63.2330	20669		
14	YX	Republic Airline	25639	16690	65.0961	25396		
15	NK	Spirit Air Lines	15013	10081	67.1485	14961		
16	9E	Endeavor Air Inc.	20690	14744	71.2615	20574		
17	DL	Delta Air Lines Inc.	75006	56048	74.7247	74952		