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Course: CUNY SPS Summer Bridge – SQL
Assignment #1

1.Which destination in the flights database is the furthest distance away, based on information in the flights table. Show the SQL query(s) that support your conclusion.

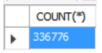|	dest	distance
▶	HNL	4983

SELECT dest, distance FROM flights where distance = (SELECT MAX(distance) FROM flights) limit 1;

2.What are the different numbers of engines in the planes table? For each number of engines, which aircraft have the most number of seats? Show the SQL statement(s) that support your result.

	MAX(engines)	MAX(seats)
▶	1	16
	2	400
	3	379
	4	450

SELECT MAX(engines), MAX(seats) from planes GROUP BY engines;

3.Show the total number of flights.

	COUNT(*)
▶	336776

SELECT COUNT(*) from flights;

4.Show the total number of flights by airline (carrier).

	carrier	COUNT(*)
▶	9E	18460
	AA	32729
	AS	714
	B6	54635
	DL	48110
	EV	54173
	F9	685
	FL	3260
	HA	342
	MQ	26397
	OO	32
	UA	58665
	US	20536
	VX	5162
	WN	12275
	YV	601

SELECT carrier, COUNT(*) from flights GROUP BY carrier;

5.Show all of the airlines, ordered by number of flights in descending order.

carrier	COUNT(*)
UA	58665
B6	54635
EV	54173
DL	48110
AA	32729
MQ	26397
US	20536
9E	18460
WN	12275
VX	5162
FL	3260
AS	714
F9	685
YV	601
HA	342
OO	32

SELECT carrier, COUNT(*) from flights GROUP BY carrier ORDER BY COUNT(*) DESC;

6. Show only the top 5 airlines, by number of flights, ordered by number of flights in descending order.

carrier	COUNT(*)
UA	58665
B6	54635
EV	54173
DL	48110
AA	32729

SELECT carrier, COUNT(*) from flights GROUP BY carrier ORDER BY COUNT(*) DESC limit 5;

7. Show only the top 5 airlines, by number of flights of distance 1,000 miles or greater, ordered by number of flights in descending order.

carrier	COUNT(carrier)
UA	41135
B6	30022
DL	28096
AA	23583
EV	6248

SELECT DISTINCT carrier, COUNT(carrier) from flights WHERE distance >= 1000 group by carrier order by COUNT(carrier) DESC limit 5;

8. Create a question that (a) uses data from the flights database, and (b) requires aggregation to answer it, and write down both the question, and the query that answers the question.

Question: what are the top 5 most popular days of the month for flights?

day	COUNT(day)
18	11399
11	11359
22	11345
15	11317
8	11271

SELECT day, COUNT(day) from flights group by day order by COUNT(day) DESC limit 5;