

Q1: What is the average altitude of the three major New York airports?

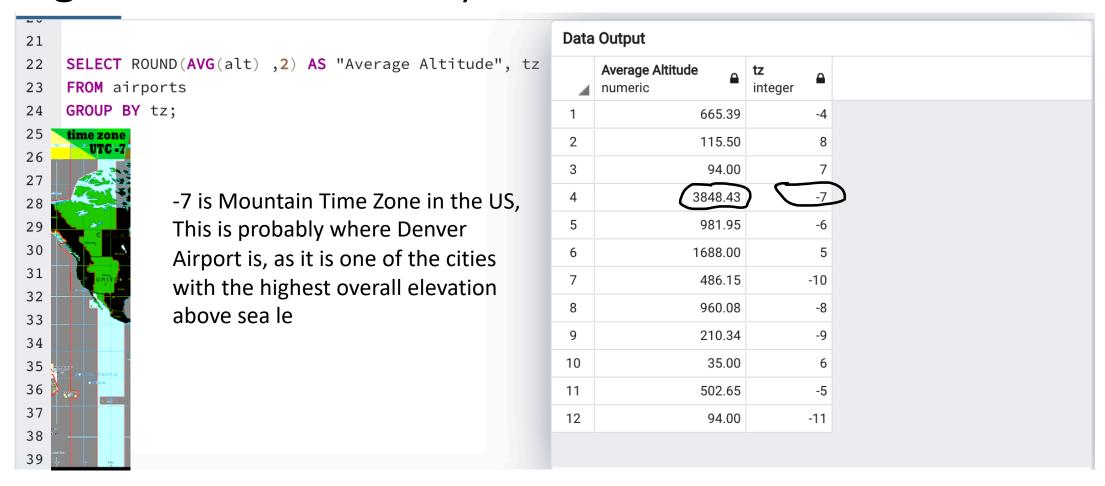
```
SELECT ROUND(AVG(alt) ,2)
FROM airports WHERE (faa LIKE 'EWR') or (faa LIKE 'JFK') or (faa LIKE 'LGA');

Data Output Explain Messages Notifications

round numeric

1 17.67
```

Q2: What is the average altitude for airports grouped by timezone. Which timezone has the highest altitude? Why?

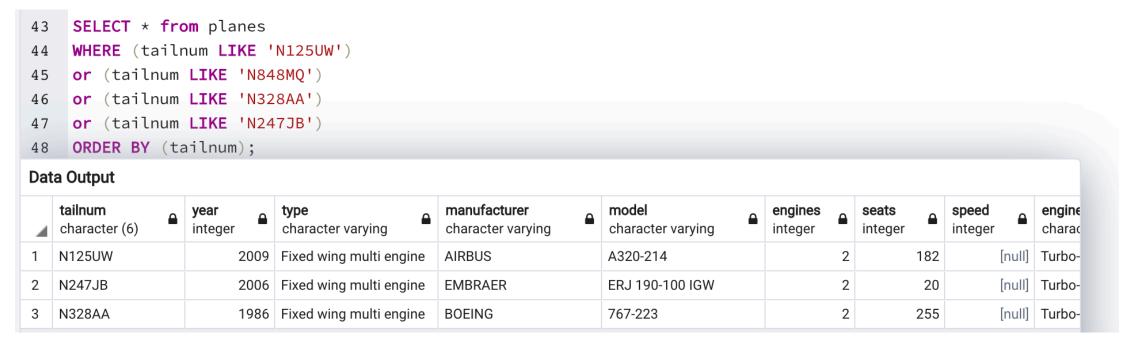


Q3: Order the below tailnums by number of flights out of the three NY airports, show the how many flights Plane tailnums:

'N125UW','N848MQ','N328AA','N247JB'

```
SELECT tailnum, COUNT(*) AS total
                                       Data Output
FROM flights
                                           tailnum
                                                          total
WHERE (tailnum LIKE 'N125UW')
                                           character (6)
                                                          bigint
or (tailnum LIKE 'N848MQ')
                                          N125UW
                                                                35
or (tailnum LIKE 'N328AA')
                                          N247JB
                                                               350
or (tailnum LIKE 'N247JB')
                                          N328AA
                                                               393
GROUP BY tailnum;
                                          N848MQ
                                                               175
```

Q4: For each of these four planes, show the corresponding meta-data (model, manufacturer, engines, etc.) about each plane? What is surprising about the information returned? How do you think this could happen?



All of this meta-data points to the idea that all of these tailnumbers are tied to similar planes. All of the planes were fixed-wing, dual turbo engine planes, which leads me to believe that they are probably the best fit for the flights assigned to these tailnums.

Q5: Show real 'wedding' meals and the number of guests getting them only if they are more than 25 guests order by most to least.

7	select * FROM meal, guest							
8	WHERE code = ('B') or code = ('C') or code = ('S') or code = ('V')							
9 (ORDER by code;							
10								
Data Output								
	code character varying (6)	Description Text character varying (50) □	Number smallint	initials character varying (3)	Name character varying (50) □	Last Name character varying (50)		
1	В	Prime Rib of Beef	315	SWG	Suzanne West's Guest	West		
2	В	Prime Rib of Beef	351	JH	Joanne Howell	Carr		
3	В	Prime Rib of Beef	273	BD	Brian Durham	Durham		
4	В	Prime Rib of Beef	114	HS	Harvey Strum	Strum		
5	В	Prime Rib of Beef	314	SW	Suzanne West	West		
6	В	Prime Rib of Beef	274	JD	Julie Durham	Durham		
7	В	Prime Rib of Beef	275	JDL	Joseph Dallmeyer	Dallmeyer		
8	В	Prime Rib of Beef	359	RF	Rudolph Fender	Fender		

```
select * FROM meal, guest
     WHERE code = ('B') or code = ('C') or code = ('S') or code = ('V')
     ORDER by code;
10
 Data Output
        code
                                       Description Text
                                                                  Number
                                                                                                                                      Last Name
                                                                                initials
                                                                                                          Name
                                       character varying (50)
                                                                  smallint
                                                                                                          character varying (50)
                                                                                                                                     character varying (50)
        character varying (6)
                                                                                character varying (3)
                                       THITIE IND OF DEEL
                                                                                                          Karen bira
                                       Prime Rib of Beef
                                                                           272 KBG
                                                                                                          Karen Bird's Guest
  172
        В
                                                                                                                                     Bird
 173
        С
                                       Fabulous Georgia Peach Chi...
                                                                           106 KG
                                                                                                          Kenneth Goldberg
                                                                                                                                     Goldberg
```

272

329

273

Fabulous Georgia Peach Chi...

Fabulous Georgia Peach Chi.

174

175

176

177

178

179

KBG

206 DFG

314 SW

267 JFI

DM

BD

Karen Bird's Guest

Suzanne West

Derek Miller

John Flynn

Brian Durham

Dan Fremont's Guest

Bird

West

Miller

Flynn

Durham

Fremont

```
7  select * FROM meal, guest
8  WHERE code = ('B') or code = ('C') or code = ('S') or code = ('V')
9  ORDER by code;
10
Data Output
Pescription Text
Number initials
Name
Last Name
```

4	code character varying (6) □	Description Text character varying (50) □	Number smallint	initials character varying (3)	Name character varying (50)	Last Name character varying (50)
343	С	Fabulous Georgia Peach Chi	356	VG	Vanessa Gaby	Gaby
344	С	Fabulous Georgia Peach Chi	340	NN	Norbert Nemon	Nemon
345	S	Delectable Salmon with Dill	293	RM	Ronald Miller	Miller
346	S	Delectable Salmon with Dill	34	GM	Gerard McGrath	McGrath
347	S	Delectable Salmon with Dill	37	JTP	Jennifer T. Porter	Porter
348	S	Delectable Salmon with Dill	39	AC	Albert Cecere	Cecere
349	S	Delectable Salmon with Dill	40	JCR	Jacob Cecere	Cecere
350	S	Delectable Salmon with Dill	42	DS	Daniel Strum	Strum

```
7  select * FROM meal, guest
8  WHERE code = ('B') or code = ('C') or code = ('S') or code = ('V')
9  ORDER by code;
10
```

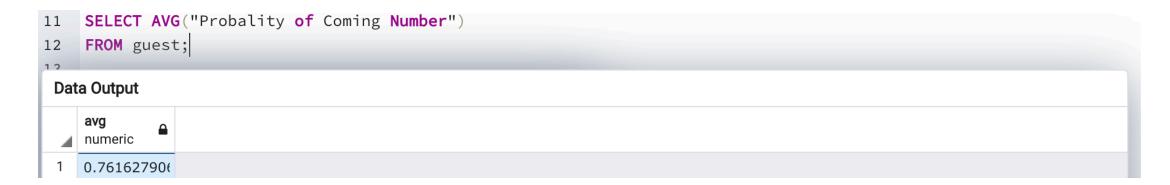
Data Output

4	code character varying (6)	Description Text character varying (50) □	Number smallint	initials character varying (3)	Name character varying (50)	Last Name character varying (50)
513	S	Delectable Salmon with Dill	358	NF	Nancy Fender	Fender
514	S	Delectable Salmon with Dill	359	RF	Rudolph Fender	Fender
515	S	Delectable Salmon with Dill	360	TS	Teddy Strum	Strum
516	S	Delectable Salmon with Dill	1000	TSG	Renata	Strum
517	V	Unique Pasta Primavera	271	КВ	Karen Bird	Bird
518	V	Unique Pasta Primavera	270	TZG	Tracy's Zawacki's Guest	Zawacki
519	V	Unique Pasta Primavera	112	JR	Joe Ritcher	Ritcher
520	V	Unique Pasta Primavera	315	SWG	Suzanne West's Guest	West

Q5: continued...

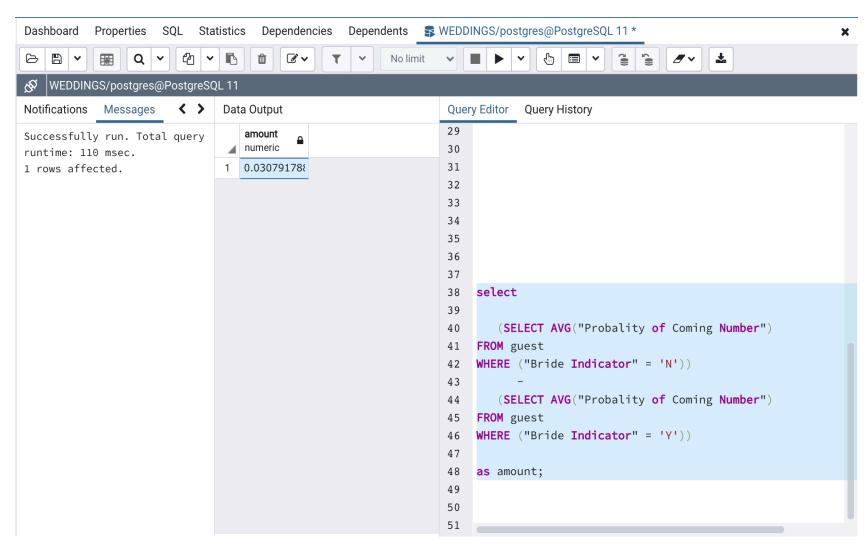
I had a tough time coding this one only showing 25 records for each meal. However, according to the screenshots/query, every meal had at least 25 guests ordering it. My query was also without the "N", which meant no meal for that guest.

Q6: What is the average of the probability of guest coming to the wedding?



The average probability of a guest coming to the wedding is roughly 0.7616.

Q7: Do the Bride or Grooms guest have a better chance of coming? By how much?



In this query, I took the averages in a subquery and subtracted groom guests from brides' guests and received a positive answer in my output. Therefore, Grooms' guests have roughly a 3% higher chance of showing up to this wedding.