


# Dem Aliens

40

Dem Aliens been spotted! Download the attached CSV with alien sightings, and answer this set of questions! First, how many observations are presented in the dataset?

 dem\_alie...

Open the excel datasheet and browse to the bottom of the list.

80330	9/9/2013 22:00	boise	id	us	circie	1200	20 minutes	Boise
80331	9/9/2013 22:00	napa	ca	us	other	1200	hour	Napa
80332	9/9/2013 22:20	vienna	va	us	circle	5	5 seconds	Saw a
80333	9/9/2013 23:00	edmond	ok	us	cigar	1020	17 minutes	2 with
80334								
80335								

Subtract 1 for the table headers and you get your answers.

Flag: 80332

## Dem Aliens 2

80

How many sightings took place outside of the United States?

For this one filter on the country codes and take off blanks and the us

73710	#####	saint john (canada)	nb	ca	oval	
74609	#####	edmundston (canada)	nb	ca	disk	
74805	#####	fredericton (canada)	nb	ca	unknown	
74971	#####	moncton (canada)	nb	ca	fireball	
75607	#####	dieppe (canada)	nb	ca	light	
76334	#####					

dem\_aliens

+

5548 of 80332 records found

Flag: 5548

## Dem Aliens 3

100

How many sightings took place in the United States and were shaped like an oval?

Filter the Shape to Oval and Country US

state	country	shape	duration
nc	us	oval	30
wa	us	oval	60
ca	us	oval	180

3032 of 80332 records found

Flag: 3032

## Dem Aliens 4

150

What is the average duration length in seconds? Round to the nearest whole number.

Go to the bottom of the sheet and do an auto sum (average on the duration(sec)

	duration (seconds)	duration
	300	5 mi
	900	15 n
	5	5 se
wn	1	split
e	180	3 mi
wn	120	2 mi
	4	~4 s
	8	5-8 s
wn	90	45-9
	3600	~1hr
l	60	
l	3	3 se
	15	15 s
e	60	1 mi
	120	2 mi
l	180	3 mi
e	20	20 s
	600	10 n
	1200	20 n
	1200	hour
	5	5 se
	1020	17 n
	9017.225634	

Flag: 9017

## Dem Aliens 5

80

What duration occurred most frequently  
in the dataset (in seconds)?

Use this formula to find the most common data point:

=INDEX(Table1[duration (seconds)],MODE(MATCH(Table1[duration (seconds)],Table1[duration (seconds)],0)))

✖ ✓ fx =INDEX(Table1[duration (seconds)],MODE(MATCH(Table1[duration (seconds)],Table1[duration (seconds)],0)))									
	C	D	E	F	G	H	I	J	K
	state	country	shape	duration (seconds)	duration (hours/min)	comments	date posted	latitude	longitude
rco tx		us	cylinder	2700	45 minutes	This event too	4/27/2004	29.88306	-97.9411
d al tx			light	7200	1-2 hrs	1949 Lackland	12/16/2005	29.38421	-98.5810
(uk/england)	gb		circle	20	20 seconds	Green/Orange	1/21/2008	53.2	-2.9166
tx		us	circle	20	1/2 hour	My older brot	1/17/2004	28.97833	-96.6458

Flag: 300

# Dem Aliens 6

50

How many sightings took place between 2006 and 2009?

Make sure the datetime filed is in date format, then select the years 2006-2009

	A	B	C	D	E	F
1	datetime	city	state	country	shape	duration (seconds)
156	1/1/2006	san francisco	ca	us	light	
157	1/1/2006	sudbury (canada)	on	ca	light	
158	1/1/2006	castle rock	co	us		
159	1/1/2006	albuquerque	nm	us	changing	
160	1/1/2006	crosslake	me		fireball	
161	1/1/2006	clovelly (devon&#44 uk/england)			other	
162	1/1/2006	milligan	ca	us	diamond	
163	1/1/2006	rice	ca	us	diamond	
164	1/1/2006	prince george (canada)	bc	ca	circle	
165	1/1/2006	san antonio/laredo (between)	tx		triangle	

17351 of 80332 records found

Flag: 17351

## Dem Aliens 7

150

What was the 8th most frequently used word used for comments about the sighting?

Create a blank text file with all the comments only.



```
dem_aliens_comments.txt - Notepad
File Edit Format View Help
This event took place in early fall around 1949-50. It
occurred after a Boy Scout meeting in the Baptist Church. The
Baptist Church sit
1949 Lackland AFB TX. Lights racing across the sky &
making 90 degree turns on a dime.
Green/Orange circular disc over Chester England
My older brother and twin sister were leaving the only Edna
theater at about 9 PM...we had our bikes and I took a
different route home
AS a Marine 1st Lt. flying an FJ4B fighter/attack aircraft on
a solo night exercise I was at 50844000 in a
"clean" aircraft (no ordinan
My father is now 89 my brother 52 the girl with us now 51
myself 49 and the other fellow which worked with my father if
```

Using a linux vm, I will use the tr, sort, uniq commands to generate the top used words.

```
Cat dem_aliens_comments.txt | tr -s " " | tr " " "\n" | sort | uniq -c | sort -nr | less
```

This will read the text file, compress any where with multiple spaces and then take that single space and create a new line for a dictionary.

Now with the dictionary we need to organize it with sort, then uniq the words with a count.

After that we will sort one more time by the count and reverse it, with a less to stop at the top.

35950 the  
33257 in  
31085 a  
25455 and  
20757 of  
15943 to  
15448 light  
14925 i  
14888 lights  
13681 over  
13026 object  
12462 bright  
12296 was  
11316 at  
10426 sky  
9878 with  
9324 on  
9321 it  
8629 moving  
7341 from  
7258 then  
7062 orange  
6931 white  
6848 my  
6577 saw  
6084 red  
5988 very  
5742 shaped  
5466 seen  
5441 that  
4726 flying  
4655 sky  
4530 like  
4513 craft  
4382 two  
4231 for  
4192 no  
4175 ufo  
3822 large  
3656 objects  
3624 we  
3554 across  
3551 were  
3549 3  
3531 about  
3471 20

The correct answer was at line 15 for me; which was a possible parsing of the comments.

Flag: sky



## Dem Aliens 8

150

How many times did the word 'zig' occur  
in the comments?

Taking the same command as 7:

```
Cat dem_alien_comments.txt | tr -s [:space:] | tr [:digit:] | tr " " "\n" | sort | uniq -c | sort -n | grep -l zig
```

```
4 zig-zagging
4 Zig-Zagging
4 zig-zagsõ#
5 ZIG
5 zigzaged
6 zig-zaggedõ#
6 zigzags
7 Zigzagging
7 zig-zags
11 zig-zagged
13 zigzagging
14 zigzagged
16 Zig
30 zigzagging
40 zig-zagging
44 zig-zag
48 zigzag
206 zig
```

Adding up all the items with zig only adds up to 230

Flag: 230

# Dem Aliens 9

80

How many sightings were posted in the Summer season?

When the datetime **Posted** is setup up correctly we can select a filter to select the months on June, July and Aug. (I had to do each month separately. Date Filter -> All Dates in Period -> Select Month

The image shows three screenshots of a data table named 'dem\_aliases'. Each screenshot displays a subset of records filtered by the 'Posted' date.

Index	Description	Posted	Value
1983	a bright white	6/3/2010	3
2017	Many&#44 m	6/3/2010	4
2021	REAL...OVALV	6/3/2010	
1715	this very dist	7/15/2010	41.52
1717	Clear night ob	7/11/2000	37.93
4357	SUNNY NIGHT	7/5/2000	35.05
995	DURING A HU	8/30/2013	33.848056
1010	Round green	8/16/2002	43.444167
1031	Broad Dayligh	8/5/2001	36.474444
4358	TL	8/16/2000	35.05

Ready 5123 of 80332 records found

Ready 6574 of 80332 records found

Ready 9845 of 80332 records found

$$5123 + 6574 + 9845 = 21542$$

Flag: 21542

Dem Aliens 10

50

How many sightings took place or near  
Lackland AFB?

Filter on the City, text search lackland and select all three lackland airforce base items.

datetime	city
10/10/1949	lackland afb
11/25/1953	lackland air force base near aviation cadet barracks
5/12/1995	lackland air force base tx

Flag: 3