Activity 4 – Interpreting Visualized Data

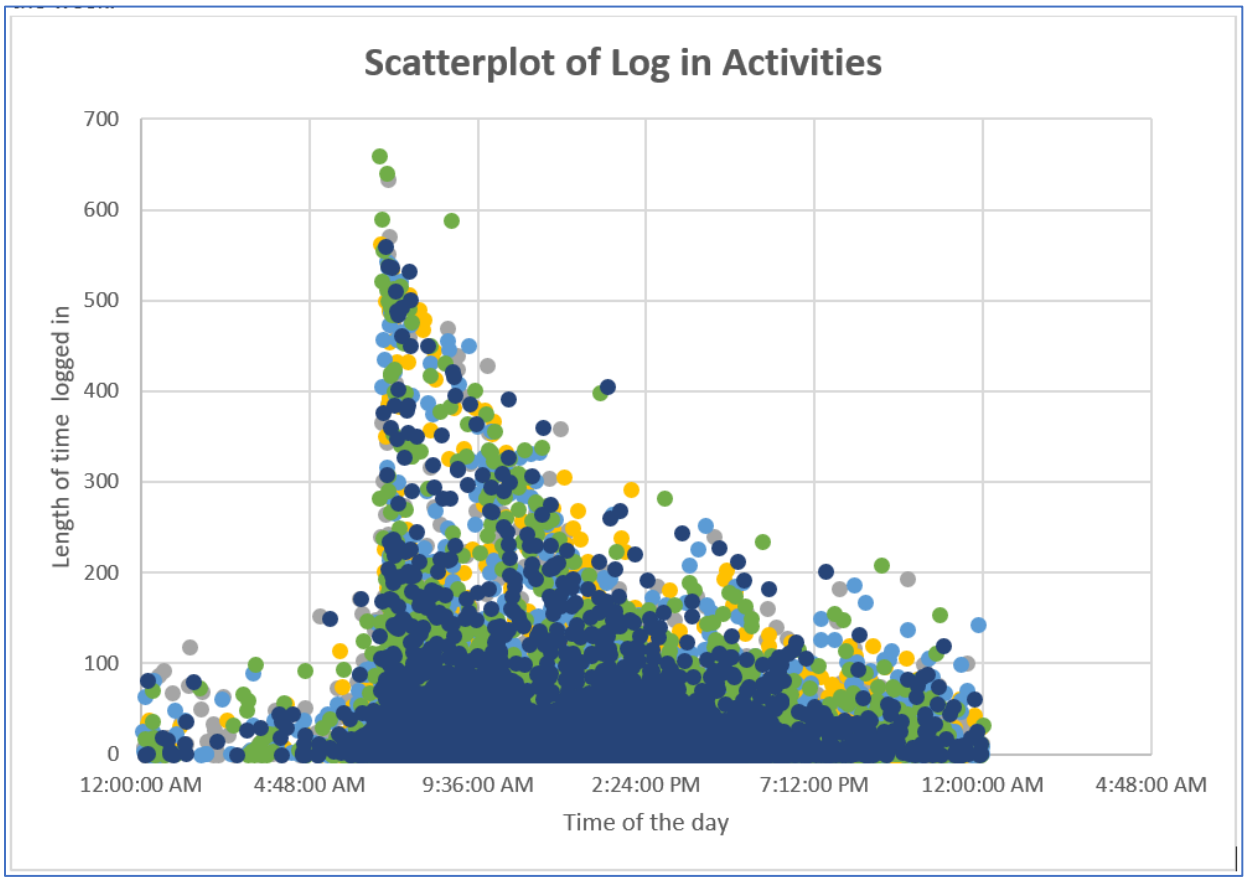
Please print this paper and keep it for reference purposes. It will be signed by the professor in charge to mark its completion and record.

Group Name: _____ Date: _____

Group Members:

Analyze the following graphs and scatterplots and answer the questions that follow:

The scatterplot below shows the log in activities of users on a certain web page from 2018 to 2019, for each day of the week.

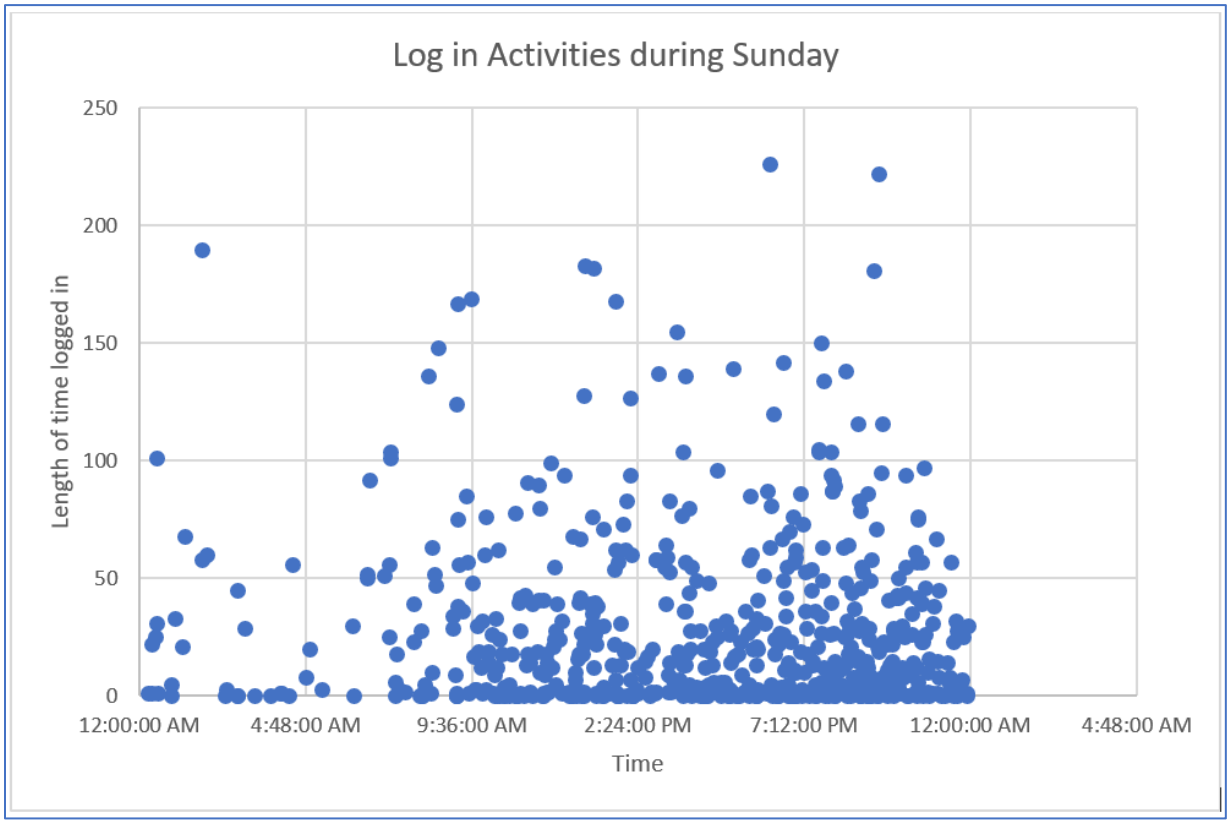


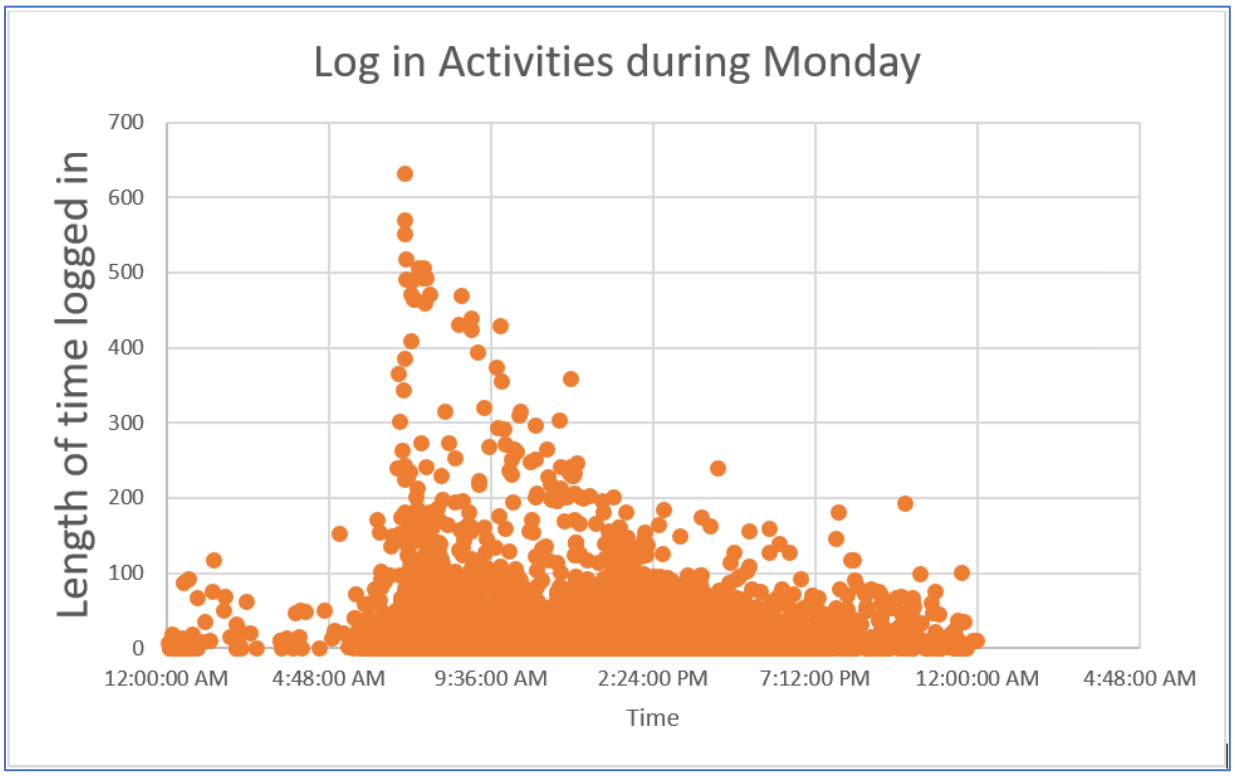
Questions:

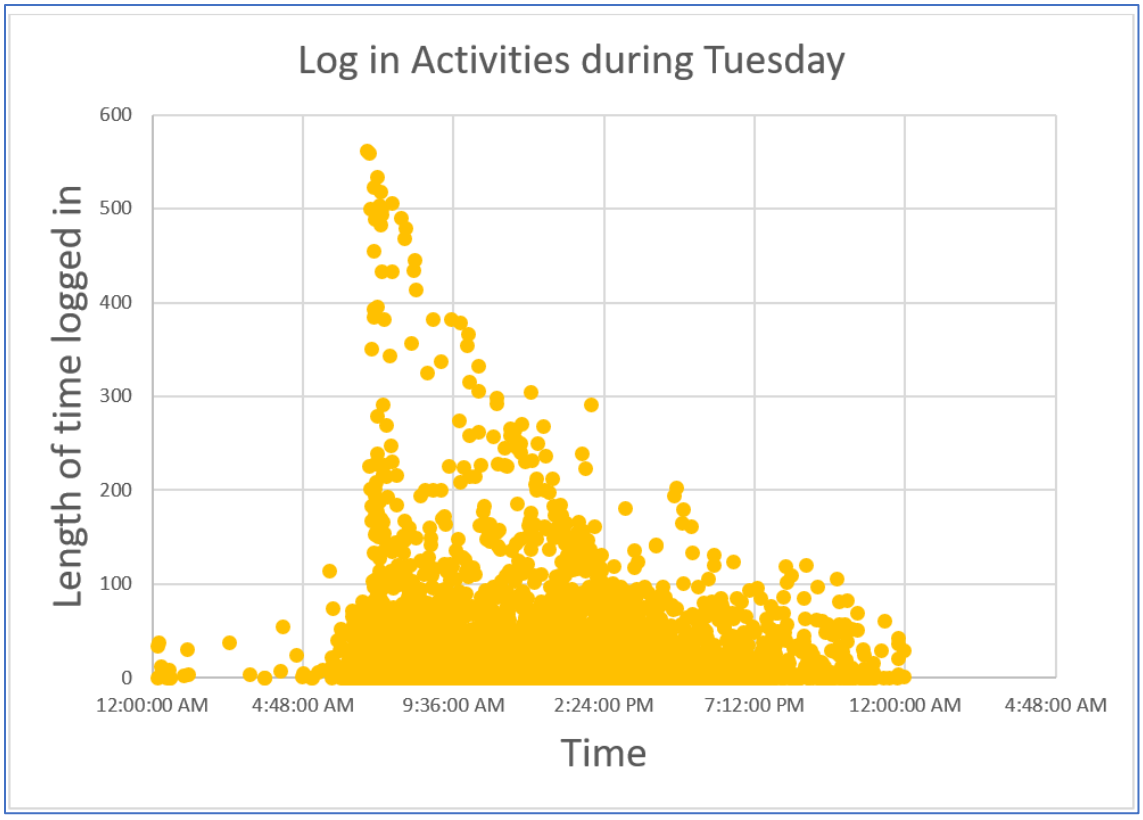
1. What are the two dimensions being plotted? _____
2. What are the Significant observations that an be drawn from the scatterplot?

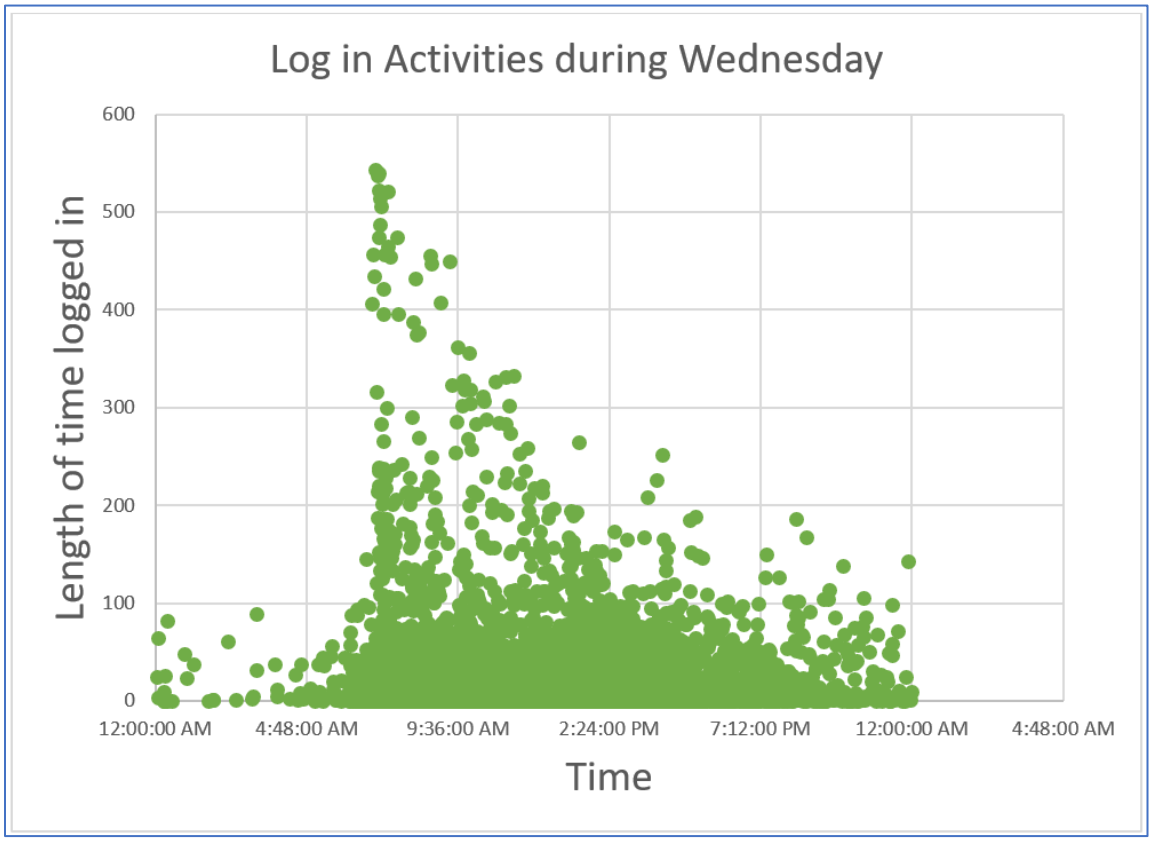
3. What values can be considered as outliers? _____

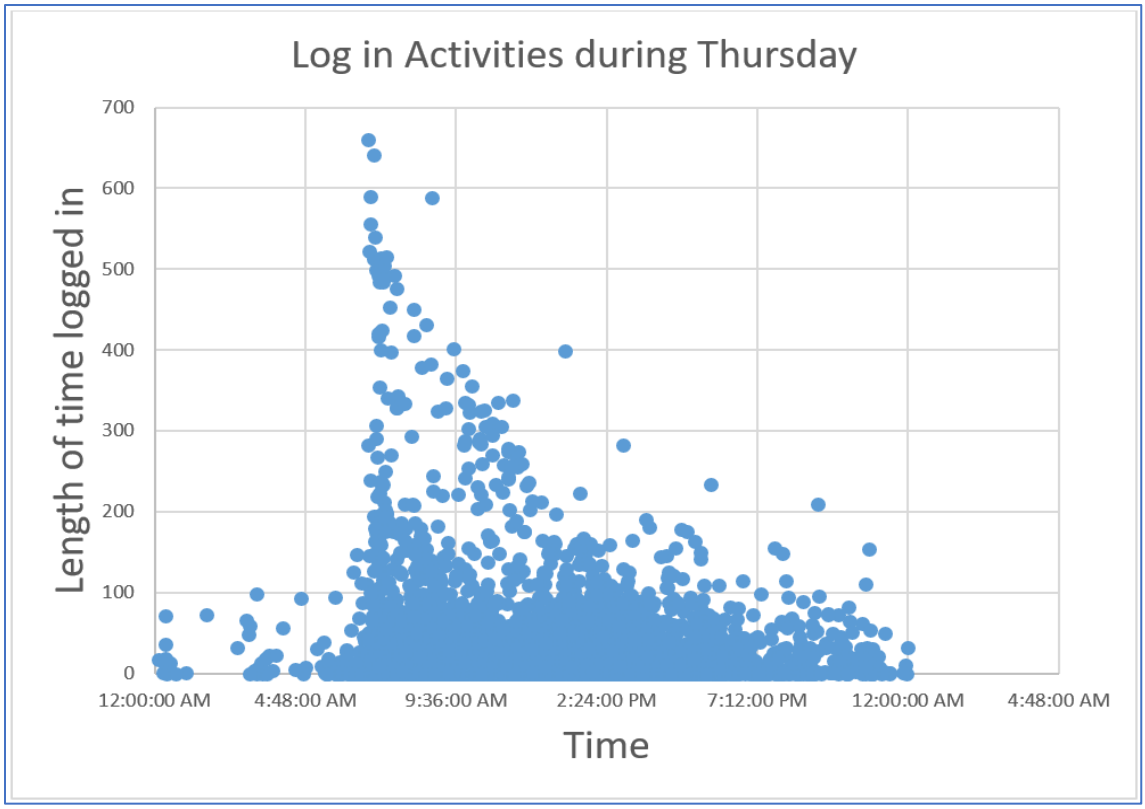
Deriving from the first scatterplot, what follows are each of the days of the week's scatterplot.

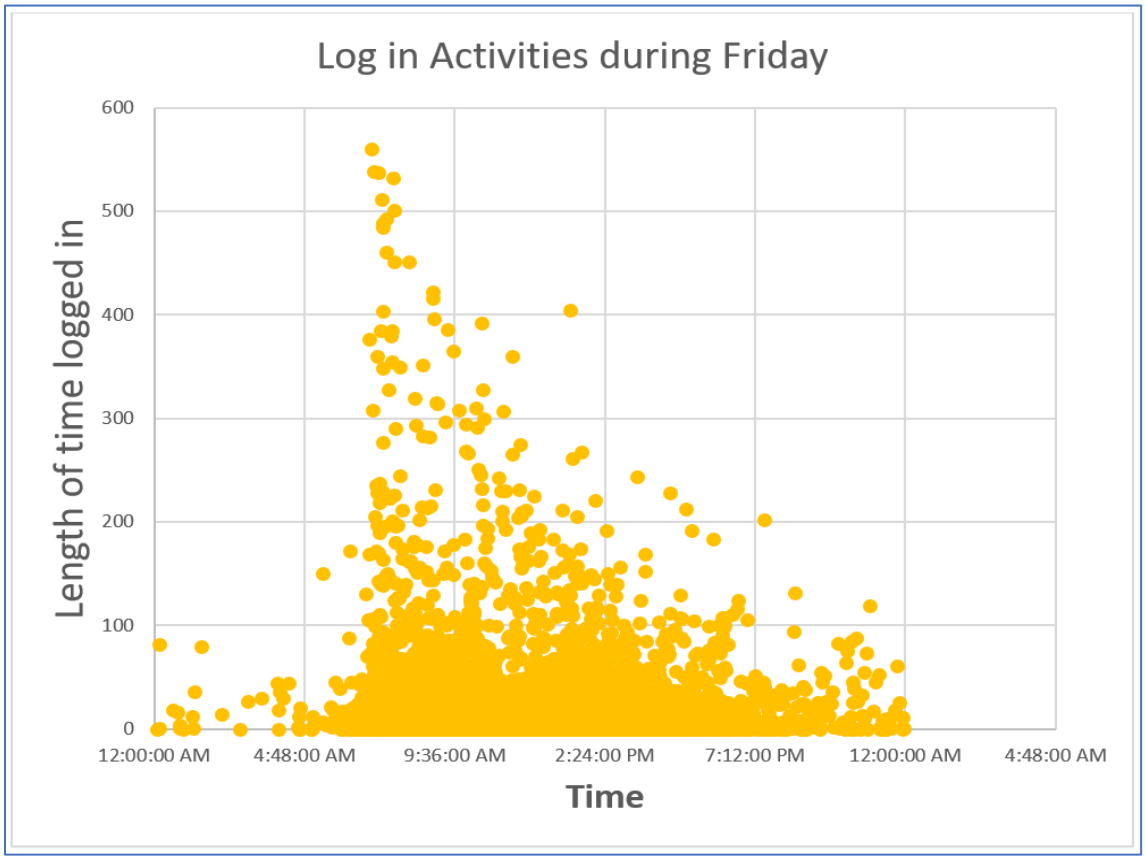


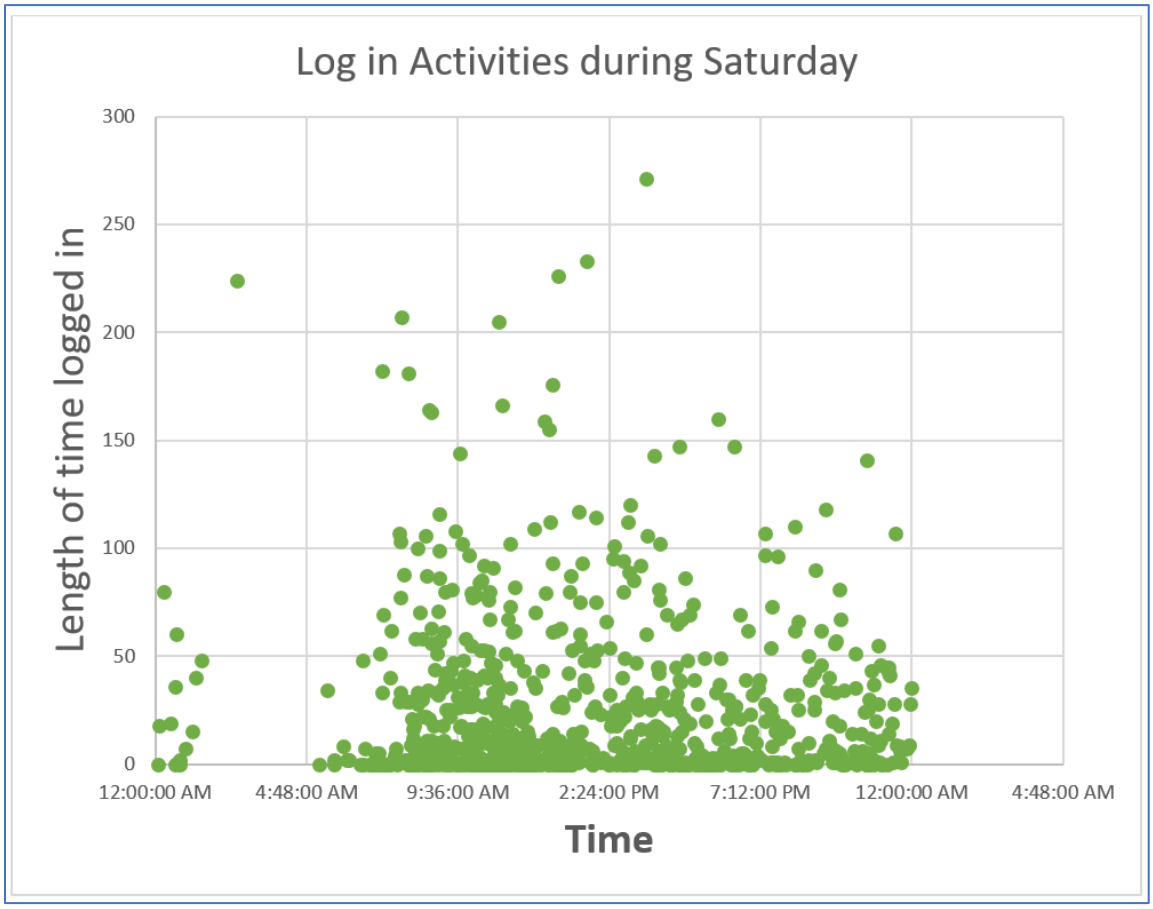



Log in Activities during Tuesday
Length of time logged in
600
500
400
300
200
100
0
12:00:00 AM
4:48:00 AM
9:36:00 AM
2:24:00 PM
7:12:00 PM
12:00:00 AM
4:48:00 AM
Time


Log in Activities during Wednesday
Length of time logged in
600
500
400
300
200
100
0
12:00:00 AM
4:48:00 AM
9:36:00 AM
2:24:00 PM
7:12:00 PM
12:00:00 AM
4:48:00 AM
Time


Log in Activities during Thursday
Length of time logged in
700
600
500
400
300
200
100
0
12:00:00 AM
4:48:00 AM
9:36:00 AM
2:24:00 PM
7:12:00 PM
12:00:00 AM
4:48:00 AM
Time


Log in Activities during Friday
Length of time logged in
600
500
400
300
200
100
0
12:00:00 AM
4:48:00 AM
9:36:00 AM
2:24:00 PM
7:12:00 PM
12:00:00 AM
4:48:00 AM
Time

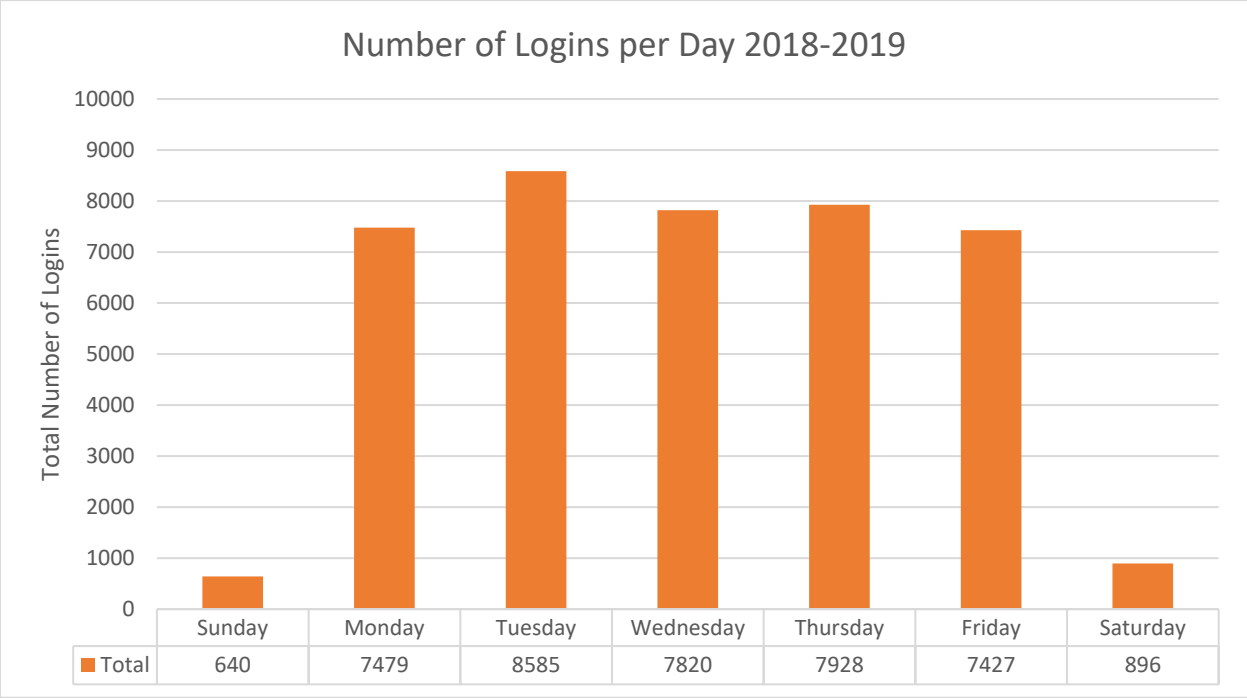


Answer the following based on the week day scatterplots

Day	Longest time Logged in	Time of the day
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

What are some interesting observations that can be derived from the scatterplot?

The histogram below shows the number of logins per day for the year 2018-2019.



Answer the following data descriptions:

Descriptors	**Values**	**Descriptors**	**Values**
Mean		Standard Deviation	
Median		Variance	
Mode			

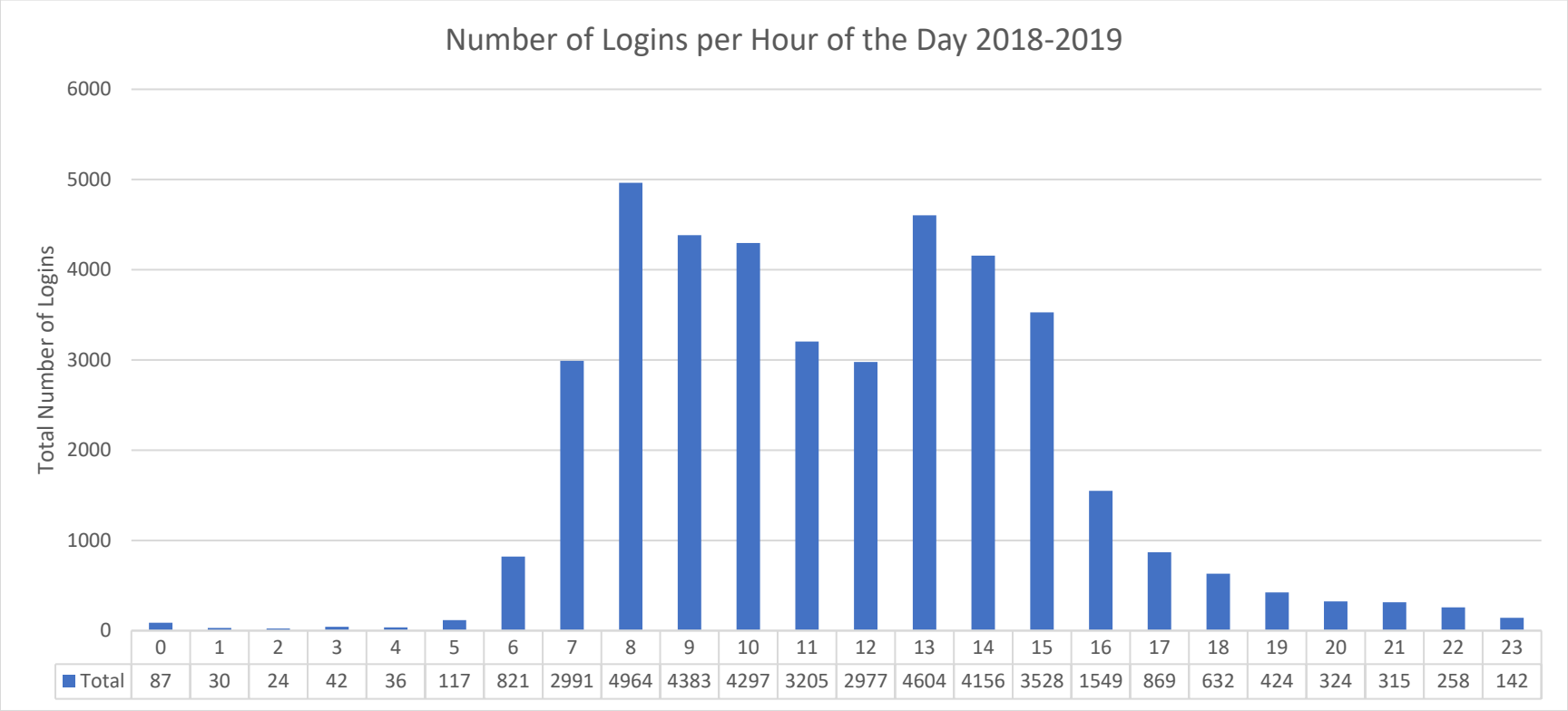
Based on the descriptors, answer the following:

a. Is the data spread or compacted? _____

b. Can the data be considered normal? _____

c. What else can you observe or conclude in the data given?

The histogram shows the total number of logins per hour of the day in 24 hours.



	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Total	87	30	24	42	36	117	821	2991	4964	4383	4297	3205	2977	4604	4156	3528	1549	869	632	424	324	315	258	142

Answer the following data descriptions:

Descriptors	**Values**	**Descriptors**	**Values**	**Descriptors**	**Values**
Mean		Mode		Standard Deviation	
Median				Variance	

Based on the descriptors, answer the following:

a. Is the data spread or compacted? _____
b. Can the data be considered normal? _____
c. What else can you observe or conclude in the data given?

Create an Infographic based on the data presented.

Short narrative about the infographics: