## Project Report

(Sudarshan Sampathkumar)

The project report contains an analysis of the output obtained from running the project to the best of my understanding. First, of many, we should keep in mind that more than 50 % of the data has been removed to make the execution faster. The project works on the dataset which has been narrowed down to timestamps that are weekdays and that fall during the average working hours (8 am to 5 pm).

#### **Analysis of the Output:**

The project generates three excel files  $p\_10$ ,  $p\_227$ , and  $p\_300$  for windows 10, 227, and 300 seconds respectively. Correspondingly, excel files  $c\_10$ ,  $c\_227$ , and  $c\_300$  store the Yes/No values to denote statistical distinguishability.

For the **10-second** window, the number of P values that are less than 0.05 is 65. That means, to my understanding, with the given data, only 65 of those comparisons can be statistically distinguished. Maybe, a more positive output can be obtained by increasing the size of the data.

For the **227-second** and **300-second** window, the number of P values that are less than 0.05 dropped to 2.

From studying the data, I understood that as the window increases, the degree of indistinguishability increases. For a wide time window, there can be many user data that are similar and fall into the same window, however, when broken down to smaller windows, there is a significant change in the corresponding ratio values. It is quite noticeable that the **degree of indistinguishability increased** significantly when the window was increased from **10 to 227 seconds**. However, **there isn't much change** between the 227-second window and the 300-second window. This is potential because there isn't much difference in the window size.

#### **Anomalies:**

Upon analyzing the data, I have found quite a few anomalies that I faced while preparing the dataset and studying the final output.

- After removing the weekends and the extra hours, I noticed there wasn't any data left in a few files. Hence, the computation was not done for them. *The P-values for those files are denoted with a "-"*.
- Once the data was split, a couple of files had 0 ratios. That means the duration of the packet was 0, the entire time. Due to this, the correlation was not calculated for such files. *The P values for those files are also denoted with a "-"*.
- For some comparisons, the P-value decreased with the increase in the window size. If you check the P-value when User 6's data and User 23's data are compared, the P-value in the 10-second window was 0.64. In the 227-second window, the value decreased to 0.62 and in the 300-second window, the value dropped drastically to 0.49.

### **Describing the Output:**

The output is of 3 tables with a 54 x 54 matrix. There are a total of 2916 entries stored in the table. Each cell in the output is the P-Value when the user along the row is compared with the user over the column. The diagonal values are 0.5, meaning the value is 0.5 when the user's week 1 is compared with the same user's week 2.

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# Please go to the next page for the tables

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Figure 1 - P Value table for 10 second window (First 2 weeks)

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14	- 110			_		110	140			-		_	-			140	-	-	. 140	- 110		110	140	140	-	-		-		_	-		-	-	- 110		-	-	-	-		- "	- 110	-
15 N	o No	. No	No.		. No	No	No	No	No	- No	No.		No	No.	No	No.	No	- No	- No	- No	No.	No	No	No	No	No N	lo No	No	No.	•	No No	No	No	No N	o No	. No	No.	No	No	No No	No	- N	o No	No
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16 17	- Io N-	- No	. No	-	No.	No.	No.	No.	No.	- Na	No.	-	No.	- No	No.	No.	No.	- Na	. No	No.	No.	No.	No.	No.	No.	No N	lo No	No.	. No	-	No No	No	No.	No N	n No	No.	No.	Vor	No.	No No	No.	- M		No.
17 N	or No	) INO	NO No	-	- INU	NO	No	NO No	No.	- NO	NO No	-	Voc	- INU	NO No	No.	No	- NO	o No	NO No	NO Voc	No	No	No.	No.	No A	NO NO	No.	- INU	-	No No	INU No	NO No	No N	U INO	NU	No.	Voc	No	No Yes	INU Voc	- N	u INU	No.
18 Y	to No	NO NI-	NU No	-	- INU	INU	No.	NO Na	No.	- NO	INO Ma	-	No.	- INU	NO No	No	No	- Ye	o INO	INO No.	162	INU No	No	No.	No.	No 1	NO INO	NO No	- 162	-	No No	INU Na	NO No	No N	U INO	TES	No.	Voc	No	No M-	162	- Y(	co No	No No
20	O NO	) NO	) NO	-	- NO	NO No	NO No	NO No	NO No	- NO	NO No	-	NO No	- NO	NO No	NO No	NO No	- NO	) NO	NO No	NO No	NO No	NO No	NO No	NO No	NO I	No No	NO No	- No	-	NO NO	NO No	NO No	NO N	O NO	NO No	NO No	Yes	NO No	NO NO	NO No	- N	0 NO	No No
21	O NO	) NO	) INO	-	- INO	INO	NO	NO	NO	- NO	INO	-	INO	- INO	NO	NO	INO	- INC	) NO	INO	NO	NO	INO	NO	INO	NO I	NO INO	INO	- INO	-	NO NO	ino	INO	NO N	O NO	NO	INO	162	NO	NO NO	NO	- N	O NO	NO
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<b>25</b> N	o No	) No	) No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	) No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	0 No	No	No	No	No	No No	No	- N	o No	No
<b>26</b> N	o No	) No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	) No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
<b>27</b> N	o No	) No	No No	-	- No	No	No	No	No	- No	Yes	-	No	- No	No	No	No	- No	No No	No	No	Yes	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	No
<b>28</b> N	o No	) No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	) No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
<b>29</b> N	o No	) No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	No	No	No No	No	- N	o No	Yes
30 N	o No	) No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	) No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
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32 N	o No	) No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
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<b>37</b> N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	Yes N	o No	No	No	Yes	No	No No	No	- N	o No	No
38 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	Yes	Yes	- No	No No	No	No	Yes	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	Yes
39 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	Yes	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	No
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41 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
<b>42</b> N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
43 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	No
<b>44</b> N	o No		No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
<b>45</b> N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	Yes
46 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
42 M 43 M 44 M 45 M 46 M 47 M 48 M 49 M	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	Yes 1	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	Yes
48 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o Yes	No	No	Yes	No	No No	No	- N	o No	No
<b>49</b> N	o No	No No	No No	-	- No	Yes	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	Yes	No	No No	No	- N	o No	Yes
<b>50</b> N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	Yes	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
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53 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No
54 N	o No	No No	No No	-	- No	No	No	No	No	- No	No	-	No	- No	No	No	No	- No	No No	No	No	No	No	No	No	No N	No No	No	- No	-	No No	No	No	No N	o No	No	No	No	No	No No	No	- N	o No	No

1 2 3 4 5	5 6 7 8 9 10 1:	1 12 13 14	15 16 1	7 18 19 20 21	22 23 24 25 26	5 27 28 29	30 31 32 33	34 35	36 37 38 39	0 41 42 43	44 45 46 47	48 49 50 51	52 53 54
1 0.5 0.928446 0.871155 0.427368 -	0.68122  0.641517  0.945233  0.915734  0.946475  -			6093 0.909469 0.521289 0.861841 -	0.938773  0.649957  0.778803  0.818606  0.688	0,000 0,0000 0,000,011 0,010000,	01755020 01051577 01070020 012001	0.5527.05			8 0.879213 0.619893 0.425403 0.66121		0.557264 0.347785 0.489177
2 0.250141 0.5 0.537081 0.546273 -	0.528782			7714 0.5116 0.542937 0.544346 -	0.528788 0.527546 0.515776 0.519527 0.540				0.52098 0.527629 0.50517 0.5		1 0.340665 0.539039 0.339826 0.52911		0.318799 0.525996 0.392388
3 0.425015 0.633958 0.5 0.503391 -	0.267283 0.272699 0.768005 0.61542 0.74822 -			5473 0.509418 0.258657 0.268849 -	0.371752  0.435088  0.718003  0.609028  0.223	1205 0.582366 0.499871 0.620061		72 - 0.776976	0.564928 0.217768 0.75126 0.4		0.746246  0.525338  0.252327  0.23629		0.291972  0.475072  0.297223
4 0.411371 0.509441 0.464372 0.5 -	0.47143 0.645714 0.454039 0.455896 0.535578 -	0.404906 0.411478 - 0.5	577407 - 0.29	6094 0.458964 0.432525 0.590297 -	0.460702 0.523646 0.492348 0.607508 0.49	918/ 0.418996 0.341524 0.365398	0.488916 0.390803 0.32367 0.4153	96 - 0.13734	0.529275 0.327368 0.536237 0.3	39849 U.352558 U.511892 U.32856	64 0.539775 0.445697 0.480654 0.35645	/ 0.52/51/ 0.38/981 0.518915 -	0.499483 0.638939 0.418863
5	0.5 0.445447 0.500775 0.024740 0.522050			7704 0 700002 0 404420 0 0020205	0.525366 0.621679 0.346276 0.747909 0.591		0 529053					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
6 0.655593 0.615275 0.723647 0.423167 - 7 0.911042 0.817542 0.888724 0.769786 -	0.5 0.445447 0.598775 0.824719 0.522059 - 0.907309 0.5 0.983745 0.944799 0.918627 -	0.471484 0.748617 - 0. 0.973141 0.981978 - 0.9		7781 0.760863 0.401439 0.629295 - 6027 0.990918 0.947856 0.634714 -	0.525500 0.021075 0.540270 0.747505 0.555	1871 0.393226 0.265903 0.554376	0.858689 0.791886 0.799239 0.8548	34 - 0.663616 85 - 0.703009	0.400104 0.500215 0.401012 0.7		06		0.495597
8 0.873295 0.939197 0.943408 0.881746 -	0.968186 0.833633			0488 0.891169 0.819741 0.933391 -	0.069997 0.949965 0.93975 0.046405 0.950		0.875142 0.94338 0.953233 0.8597	55 - 0.705009 54 - 0.864956	0.902102 0.973149 0.937223 0.9		66		0.932104 0.907441 0.866626
9 0.995116 0.99814 0.997639 0.993878 -	0.992615 0.993668 0.998423 0.5 0.998228 -			9822	0.905455 0.8622/1 0.949291 0.94246 0.9/4	+078		54 - 0.804950 55 - 0.996445	- 0.819007 0.955705 0.915090 0.84 - 0.986409 0.997082 0.998218 0.9		0.992118		0.995024 0.965319 0.997001
10 0.31648 0.590594 0.298893 0.176367 -	0.472133  0.440736  0.272378  0.3292  0.5 -	0.609605 0.563825 - 0.3		6528 0.406975 0.173676 0.238078 -	0.550574 0.550501 0.550500 0.555500 0.550	0001 0.570341 0.57030 0.500033	0.373362 0.390333 0.396101 0.3913	14 - 0.357395	0.300403 0.337002 0.330210 0.3	10342	0.595103		0.335978 0.231375 0.302218
11	0.472133 0.440730 0.272376 0.3232 0.3 -	0.009003 0.303623 - 0.3		0328 0.400973 0.173070 0.236076 -	0.336197 0.270701 0.234923 0.439303 0.40	0.092 0.272120 0.001031 0.130194	0.27/300 0.400136 0.444332 0.1374	- 0.55/555	0.41//33 0.36340/ 0.40/123 0.3		0.474276 0.301630 0.060342 0.3406	2 0.427603 0.39733 0.203931 -	0.555576 0.251575 0.502216
12 0.682364 0.827559 0.707916 0.761063 -	0.601924  0.662235  0.804953  0.824192  0.835333  -	0.5 0.849907 - 0.7	71971/ - 0.00	2522 0.775562 0.801818 0.740451 -	0.871546 0.604065 0.651012 0.820728 0.70	7700 0.834610 0.748077 0.68685	0.772682 0.650002 0.805700 0.4002	50 - 0.970062	0.558000 0.810840 0.631411 0.6	22606 N 86066 N 672661 N 6717 <i>N</i>	1 0.853845 0.711819 0.486382 0.77327	1 0 680041 0 684064 0 640503	0.682054 0.571343 0.57572
13 0.893918 0.815671 0.49833 0.607137 -	0.001924 0.002233 0.004933 0.024192 0.033333 -	0.5 0.645507 - 0.7	781677 - 0.30	4715 0 975703 0 488751 0 753798 -	0.633569 0.7133/1 0.6853/ 0.3/6081 0.2/7	753/ 0.8/5018 0.11232 0.50030	0.646305 0.455611 0.547546 0.7558	15 - 0.873002	. 0.888945 0.813078 0.684781 0.5	0.00300 0.00300 0.073001 0.07174 05775 0.009013 0.819269 0.02690	16	7 0.746393 0.392476 0.799136 -	0.811964 0.93582 0.23582
14	0.720372 0.343131 0.03330 0.043013 0.03010	0.005451 0.5 0.7											0.011304 0.53502 0.23502
15 0.872713 0.928897 0.906789 0.81883 -	0.848109 0.658102 0.967506 0.969158 0.978662 -	0.948143 0.911317 -	05 - 096	1978 0.964176 0.761044 0.909694 -	0.91307 0.840926 0.965312 0.966564 0.723	7568 0.858412 0.976317 0.852908	0.935564 0.93658 0.870073 0.885	41 - 0.791346	- 0.929142 0.847045 0.946061 0.7	.7148	2 0 971584 0 688481 0 678707 0 90805	9 0.858535 0.84681 0.968063 -	0.908767 0.903637 0.807755
16													
17 0.92767 0.920733 0.77176 0.512732 -	0.759512 0.400193 0.696815 0.972204 0.895492 -	0.760805 0.559668 - 0.5	529559 -	0.5 0.580029 0.495151 0.593763 -	0.648164 0.636743 0.834714 0.719092 0.50	0263 0.842147 0.795518 0.737622	0.763009 0.691671 0.59203 0.694	78 - 0.814655	- 0.833211 0.795204 0.893014 0.7	8708 0,87348 0.872673 0.51373	35	5 0.486729 0.829149 0.936743 -	0.717135 0.883344 0.596659
18	0.502157 0.298414 0.550224 0.407971 0.345037 -			1825	0.474802  0.482752  0.146788  0.295457  0.246	6164 0.552774 0.458812 0.446703	0.2268 0.356991 0.49902 0.1297	22 - 0.16934	0.18297 0.529601 0.325321 0.4		89 0.203597 0.226985 0.192301 0.48859		0.154877 0.167755 0.584299
<b>19</b> 0.952372 0.933437 0.917917 0.726437 -	0.785247 0.718044 0.872549 0.948858 0.947703 -			3448 0.878662 0.5 0.84316 -	0.768221 0.872634 0.906664 0.894034 0.657	7171 0.840733 0.804557 0.852185	0.839741 0.689154 0.642412 0.7213	18 - 0.897291	0.885372 0.489453 0.961728 0.8	37845 0.904681 0.935553 0.55656	3 0.88697 0.828619 0.245979 0.78781	5 0.74598 0.853402 0.886973 -	0.662319 0.819137 0.793109
<b>20</b> 0.871393 0.838844 0.630506 0.468642 -	0.696385 0.694547 0.806896 0.952228 0.846744 -	0.709907 0.788859 - 0.8	395336 - 0.72	3808 0.846799 0.664606 0.5 -	0.772384 0.807077 0.900932 0.652857 0.580	0559 0.664061 0.592854 0.601491	0.811926	43 - 0.859159	0.754263 0.823017 0.827772 0.7	55517 0.818206 0.842309 0.65407	76 0.88922 0.766807 0.462147 0.54742	1 0.842029 0.677429 0.90018 -	0.678654 0.699044 0.226803
21													
<b>22</b> 0.256889 0.718674 0.710233 0.562001 -	0.387932	0.609846 0.581447 - 0.6	587219 - 0.42	0771 0.679365 0.396968 0.539035 -	0.5 0.56801 0.548004 0.331921 0.713	3158 0.549927 0.52055 0.401429	0.401144 0.535432 0.37029 0.4316	24 - 0.745034	0.593739 0.324424 0.68339 0.4	9683 0.473893 0.288671 0.37487	7 0.531674 0.419102 0.206249 0.46103	1 0.568631 0.617913 0.503877 -	0.537199  0.386032  0.254339
<b>23</b> 0.668182 0.668914 0.653147 0.491661 -	0.384897 0.652747 0.484142 0.738846 0.711375 -	0.717233 0.671858 - 0.	.62124 - 0.	6681 0.700385 0.415836 0.537149 -	0.718476	2119 0.620759 0.64423 0.227316	0.372692  0.466703  0.474486  0.2938	37 - 0.459902	0.356922 0.513217 0.604882 0.5	06983 0.488335 0.488125 0.58776	61 0.707121 0.607424 0.331566 0.66354	3 0.634322 0.5995 0.683897 -	0.527655 0.452866 0.397731
<b>24</b> 0.439273 0.585773 0.477709 0.302656 -	0.100518	0.64302 0.406264 - 0.6	583094 - 0.58	2564 0.552393 0.306813 0.213965 -	0.514631 0.442394 0.5 0.65055 0.433	3112 0.438495 0.404679 0.177878	0.236642	16 - 0.208741	0.515596 0.225899 0.53119 0.4	5014 0.225911 0.414065 0.31955	7 0.58098 0.472715 0.144184 0.24770	4 0.437565 0.35804 0.654115 -	0.342881 0.230728 0.230605
<b>25</b> 0.314428 0.489418 0.555875 0.688217 -	0.626267 0.223351 0.783412 0.731958 0.625618 -	0.712472 0.690151 - 0.7	786073 - 0.59	7783 0.635689 0.62239 0.415962 -	0.556226 0.768436 0.584994 0.5 0.613	1465 0.638325 0.582037 0.731195	0.602877 0.524499 0.819875 0.6567	82 - 0.539334	0.68761 0.542393 0.719671 0.6	51075 0.518364 0.71459 0.58010	0.209069 0.553159 0.405132 0.37938	4 0.718514 0.425358 0.501791 -	0.663667 0.425866 0.4523
<b>26</b> 0.863591 0.957435 0.843107 0.712495 -	0.779533  0.805512  0.848609  0.971276  0.912575 -	0.909512 0.914387 - 0.8	369202 - 0.88	1125 0.969268 0.666644 0.830496 -	0.899391 0.895485 0.782993 0.924307	0.5 0.712669 0.849945 0.562912	0.871136 0.791848 0.644271 0.6814	47 - 0.642478	0.767637 0.893405 0.943521 0.	76723 0.898339 0.864652 0.85494	1 0.92146 0.69592 0.63644 0.89047	2 0.79998 0.976422 0.976609 -	0.858394 0.822269 0.7115
<b>27</b> 0.757499 0.911892 0.7974 0.627316 -	0.791801 0.629197 0.716838 0.940256 0.759556 -	0.566641 0.636795 - 0.8	328395 - 0.68	7893 0.689256 0.447713 0.704875 -	0.649758 0.686551 0.701203 0.753657 0.518	8696 0.5 0.741263 0.759053	0.689798 0.511174 0.56764 0.6704	0.842549	0.835464 0.710665 0.893461 0	.7578 0.749632 0.92209 0.67152	8 0.880355 0.652211 0.275294 0.62946	4 0.596495 0.685216 0.835967 -	0.704989 0.864654 0.439346
<b>28</b> 0.786194 0.839963 0.68552 0.585387 -	0.656574 0.596509 0.815843 0.836224 0.744936 -	0.733905 0.771425 - 0.8	303556 - 0.80	4965 0.846335 0.52774 0.618745 -	0.618124 0.779583 0.839531 0.739108 0.810	0561 0.594901 0.5 0.845404	0.858444 0.672794 0.727634 0.6211	47 - 0.776381	0.83855 0.517777 0.814702 0.74	3371 0.839545 0.757159 0.73012	3 0.822165 0.616401 0.626321 0.46191	9 0.538355 0.774015 0.791322 -	0.724738  0.581788  0.672292
29 0.843881 0.932524 0.744771 0.72503 -	0.639675	0.889236	349216 - 0.86	7667 0.908599 0.531829 0.355448 -	0.84973 0.820246 0.917024 0.887033 0.519	9293 0.743494 0.695813 0.5	0.762917 0.521218 0.594686 0.7281	0.765882	0.88089 0.714996 0.867305 0.74	2585 0.812273 0.858134 0.53606	55 0.880598 0.781653 0.555213 0.68711	6 0.628468 0.728548 0.858779 -	0.81266 0.697524 0.219673
<b>30</b> 0.800472 0.951169 0.909463 0.88262 -	0.805232 0.767977 0.918198 0.835031 0.826479 -	0.704627 0.906006 - 0.6	39894 - 0.66	0937 0.907441 0.740794 0.876824 -	0.903085 0.743901 0.763434 0.661772 0.925	5771 0.958133 0.926748 0.734314	0.5 0.800844 0.834237 0.8074	65 - 0.960224	0.884723 0.898033 0.904524 0.9	01405 0.864967 0.788729 0.61590	0.787891 0.795027 0.752741 0.95515	9 0.847306 0.809845 0.934385 -	0.897523 0.873476 0.510563
<b>31</b> 0.670488 0.866956 0.741683 0.571355 -	0.843977	0.746224 0.810182 - 0.6	539753 - 0.60	2951 0.774261 0.540516 0.703083 -	0.622991 0.771197 0.78778 0.785013 0.657	7889 0.702254 0.706431 0.590579	0.787097	38 - 0.724144	0.644047 0.887604 0.762431 0.8	9819 0.569575 0.705972 0.70170	06 0.641603 0.578461 0.404681 0.78024	5 0.701428 0.419453 0.807586 -	0.703395 0.712936 0.412105
<b>32</b> 0.812177 0.911546 0.834202 0.689837 -	0.683058 0.570443 0.771872 0.907355 0.889322 -	0.709638 0.72654 - 0.6	38365 - 0.66	2938 0.838581 0.527874 0.551202 -	0.777421 0.786594 0.857242 0.733287 0.722	1096 0.856277 0.812212 0.74896	0.545281 0.573474 0.5 0.7526	77 - 0.95252	0.855643 0.605299 0.937701 0.8	.4364	32	7 0.615257 0.819421 0.885159 -	0.811799 0.799103 0.339641
<b>33</b> 0.861208 0.928183 0.883662 0.773425 -	0.878824 0.729658 0.717404 0.949768 0.797599 -	0.822938 0.87231 - 0.8	341123 - 0.81	7638 0.885939 0.832057 0.897381 -	0.747377 0.811761 0.91475 0.778139 0.893	3546 0.838594 0.782896 0.914621	0.79422 0.673681 0.763149	0.95977	0.761779 0.916019 0.951979 0.95	.4487	9 0.919722 0.574453 0.67629 0.85721	9 0.712957 0.705739 0.932197 -	0.73769 0.829144 0.800307
34													
<b>35</b> 0.75002 0.81364 0.597526 0.266536 -	0.753566	0.676121 0.678552 - 0.8	323282 - 0.63	5855 0.451185 0.535233 0.484037 -	0.657154 0.689389 0.604868 0.760967 0.577	2817 0.63135 0.644271 0.496777	0.596585	52 - 0.5	0.792948 0.522839 0.850201 0.7	.4769	7 0.721561 0.615561 0.494851 0.57938	2 0.71516 0.682842 0.821555 -	0.758191 0.840257 0.382005
36													
<b>37</b> 0.751267 0.905286 0.90618 0.818546 -	0.893471	0.940553 0.796482 - 0.6		9293 0.737143 0.754383 0.871828 -	0.72307 0.913697 0.908683 0.913329 0.685	5721 0.780082 0.835576 0.897039	0.746918 0.921899 0.836869 0.774	88 - 0.868558	0.5 0.630256 0.909721 0.7	34299     0.874637     0.951526     0.84711	.6 0.848743 0.718881 0.57108 0.73455	1 0.680977 0.916223 0.897329 -	0.797437 0.622147 0.881232
<b>38</b> 0.821998 0.714717 0.229336 0.321681 -	0.513563	***************************************		9819 0.82123 0.07945 0.134104 -	0.357366 0.563163 0.491264 0.357512 0.046		0.479179 0.309059 0.492673 0.5855	82 - 0.098788	0.851906 0.5 0.486634 0.3		86 0.426895 0.570466 0.16091 0.11305		0.791829 0.911744 0.17789
<b>39</b> 0.687381 0.630952 0.296742 0.23241 -	0.256308	***************************************		9925 0.670159 0.241091 0.306771 -	0.532922 0.563089 0.724658 0.712597 0.365				- 0.592878 0.385045 0.5 0.3		07 0.706993 0.590253 0.318759 0.47450		0.278616  0.747867  0.309223
<b>40</b> 0.64098 0.564163 0.747264 0.664266 -	0.534671  0.630673  0.592987  0.698799  0.701138  -			7926 0.592297 0.726836 0.743659 -		3594 0.591731 0.762482 0.64092		44 - 0.389321	0.763737 0.424132 0.710598		33 0.745643 0.433674 0.620121 0.74567		0.546928
41 0.4074 0.609469 0.722076 0.875217 -	0.901803 0.582195 0.903232 0.931899 0.873544 -			0677	0.884053 0.754812 0.825276 0.623259 0.893	0000 0000000000000000000000000000000000	010011010 0101110 01001711 017070	.5 0.051111	- 0.872305 0.433708 0.880618 0.8	0.5 0.474603 0.86957	4 0.814056 0.875916 0.563646 0.67282		0.792197  0.628657  0.597418
42 0.979991 0.99723 0.997759 0.984974 -	0.9954 0.958934 0.997301 0.849995 0.997634 -			8478 0.997977 0.995698 0.996853 -	0.998698	7349 0.997409 0.998858 0.979761		16 - 0.995506	0.978395 0.998661 0.997589 0.9	0.5 0.991529 0.5 0.99814	5 0.995379 0.99793 0.988925 0.99871		0.993223 0.987693 0.996194
<b>43</b> 0.708017 0.806492 0.706121 0.579232 -	0.58162 0.397176 0.909473 0.930183 0.937099 -			7161 0.870793 0.499086 0.797122 -	0.777152 0.934636 0.943924 0.899914 0.213	12.12 0.50100 0.0.07.12 0.501000	0.850264 0.650343 0.686429 0.7308	0.500257	0.803623 0.677882 0.887261 0.8		.5 0.845983 0.769794 0.146641 0.54707		0.601254 0.794779 0.614628
<b>44</b> 0.80533 0.78811 0.894114 0.912762 -	0.911216  0.668796  0.727214  0.858724  0.797068  -	***************************************		8637 0.719589 0.899101 0.900747 -	0.830686 0.840487 0.879284 0.465198 0.868				0.869057 0.871983 0.822709 0.8				0.887008 0.798181 0.901114
<b>45</b> 0.351959 0.678462 0.514884 0.25237 -	0.475594 0.227647 0.637976 0.614568 0.527056 -			0851	0.520847				0.504636 0.547257 0.744615 0.5			7 0.401364 0.278858 0.626615 -	0.320782 0.511102 0.304071
46 0.858768 0.958532 0.928593 0.648964 -	0.876308 0.628177 0.800313 0.990152 0.964549 -			2422 0.911284 0.904473 0.892668 -	0.911239 0.859357 0.974469 0.65075 0.936				- 0.940114 0.989018 0.810702 0.8			4 0.850773 0.924464 0.984634 -	0.848764 0.836153 0.512737
47 0.713756 0.553265 0.440058 0.602649 -	0.622422  0.605045  0.770658  0.823942  0.839234  -			0747 0.834612 0.260249 0.355041 -	0.574099 0.801042 0.769107 0.813443 0.504				0.774999 0.11757 0.685849 0.6			5 0.751476 0.376531 0.688975 -	0.773974 0.804642 0.344179
48 0.79312 0.883964 0.487242 0.590402 -	0.236645			0889	0.449899 0.677734 0.932841 0.878385 0.533 0.716389 0.812671 0.841857 0.829936 0.649						14 0.918946 0.538435 0.196308 0.40301 15 0.706021 0.592495 0.20495 0.4821		0.503135
49 0.755553 0.834234 0.686453 0.438816 -	0.693752 0.523036 0.771435 0.779922 0.88876 -			5509 0.716094 0.454613 0.398675 -									0.543488  0.489376  0.404452
50 0.730899 0.520927 0.633871 0.57371 -	0.65867 0.359563 0.676015 0.7607 0.500437 -		530062 - 0.59	2742 0.221436 0.596512 0.498231 -	0.237668				0.454182 0.699465 0.561038 0.6		1 0.221335 0.557507 0.581556 0.32891		0.368384 0.708503 0.748713
51	0.515003	 0.604277	 152497 - 0.39	0859 0.556317 0.337113 0.430814 -	0.622731 0.723398 0.694869 0.701227 0.456		0.641172 0.450207 0.220407 0.4075	 78 - 0.621608					0.5 0.792061 0.437176
52	0.515003			0859 0.556317 0.337113 0.430814 - 7578 0.919144 0.970495 0.994278 -	0.97677 0.955124 0.978903 0.97151 0.989						31		0.5 0.792061 0.437176 0.93762 0.5 0.966919
54	0.897046 0.569089 0.911135 0.973776 0.979298 -			7578 0.919144 0.970495 0.994278 - 2778 0.973804 0.744284 0.546524 -	0.908019 0.854457 0.966333 0.849312 0.769						i9 0.985318 0.983928 0.910271 0.98624 i7 0.937388 0.83027 0.334079 0.91205		0.735296 0.881709 0.5
0.520554 0.530255 0.700500 0.572550 -	0.057040 0.505005 0.511133 0.573770 0.573270 -	0.5/321/ 0.023310 - 0.0	,,,,,,,	2,70 0.37300T 0.7TT204 0.340324 -	0.500015 0.054757 0.500333 0.045312 0.70	,,,, 0.110330 0.0110 <del>11</del> 0.032100	0.702117 0.300103 0.333722 0.7234	0.030700	0.014733 0.313003 0.34300 0.7	U.UI U.U U.JJJJUJ U.0233J	0.557500 0.05027 0.554075 0.51205	5 0.0-7T000 0.70T333 0.303031 °	0.733230 0.001703 0.3

Figure 3 - P Value table for 227 second window (First 2 weeks)

	1 1 :	2 2	1 4	5	۱ ء	7   0	. I a	10	1 11	1 12	13	14 I	15	16	17	10 I	19 20	I 21	1 22	1 22	1 2/	1   25	: 1 2	6 27	1 20	1 20	1 20	21	1 22	T 22	34	25	26	27   2	0   20	40	I 41	42	12	44	4E	16 I	47 I	48 49	0 I EO	F1	1 52	53	E4 1
		2   3			<u> </u>	, I •	, , ,	10		12	13	14	13	10	1/	10	19   20					<u> </u>	, ,	0   27	1 20	25	30	J 31	32	] 33	34	33	30	3/   3	0   33	1 40	41	42	43	44	43	40	47	40 43	9   30		32		
1	No No	No	No	- No	No	No	No	No	-	No	No	- N	No	- No	o No	No	No	-	No	- 1	No	- No	No	No	No	No	No 1	No N	lo N	o No	No	No	No	No	No	No	No No	J											
2	No No	No	No	- No	No	No	No	No	-	No	No	- N	No	- No	n No	No	No	-	No	- 1	No	- No	No	No	No	No	No 1	No N	lo N	o No	No	No	No	No	No	No	No No	١											
3	No No	No	No	- No	No	No	No	No	-	No	No	- N	No	- No	n No	No	No	-	No	- 1	No	- No	No	No	No	No	No I	No N	lo N	o No	No	No	No	No	No	No	No No	ر											
4	No No	No	No	- No	No	No	No	No	-	No	No	- N	No	- No	n No	No	No	-	No	- 1	No	- No	No	No	No	No	No 1	No N	lo N	o No	No	No	No	No	No	No	No No	,											
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13	No No	No	No	- No	No	No	No	No	-	No	No	- N	No	- No	) No	No	No	-	No	- N		- No	No	No	No	No	No 1	No N	lo N	o No	No	No	No	No	No	No	No No												
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16			-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-
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Figure 4 - Yes/No Table for 227 second window (First 2 weeks)

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22 0.3748 0.628124 0.728359 0.34494 - 0.407104 0.278352 0.550695 0.33348 - 0.407104 0.278352 0.550695 0.33348 - 0.407104 0.278352 0.550695 0.33348 - 0.407104 0.278352 0.550695 0.33348 - 0.50848 0.56787 0.550695 0.550895
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24   0.651909   0.651909   0.65252   0.444778   0.403873   - 0.259319   0.284877   0.29320   0.673475   0.69362   - 0.750373   0.69362   - 0.750373   0.69362   - 0.750373   0.69362   - 0.65493   0.69345   0.570373   0.854478   0.69362   - 0.86493   0.65935   0.85491   0.86935   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86491   0.89388   - 0.86498   0.89488   0.89481   0.89388   - 0.86498   0.89488   0.89488   0.89489   0.89488   0.89489   0.89488   0.894899   0.89489   0.894899   0.894899   0.894899   0.894899   0.894899   0.894899   0.894899   0.8
25 0.406305 0.535354 0.587215 0.693362 - 0.717455 0.246886 0.645996 0.75905 0.685267 - 0.645376 0.799022 - 0.772477 - 0.47542 0.658063 0.691567 0.52153 - 0.80430 0.85649 0.80356 - 0.804409 0.737505 0.88549 0.91843 0.85649 0.89366 - 0.80430 0.91843 0.85649 0.80356 - 0.86449 0.737505 0.88549 0.91843 0.9
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21   12   13   13   13   13   14   15   15   15   15   15   15   15
28 0.779361 0.846373 0.563846 0.617937 - 0.745118 0.416605 0.705543 0.779991 0.7775 - 0.763131 0.832485 - 0.832672 0.750563 0.577409 0.753437 0.638613 0.837432 0.917486 0.755199 0.853733 0.714098 0.627483 0.308384 0.616531 0.741165 0.739877 0.861928 0.636712 0.552642 0.706593
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Figure 5 - P Value table for 300 second window (First 2 weeks)

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Figure 6 - Yes/No table for 300 second window(First 2 weeks)