


BSS Daily Data Tracking

Experiment plan and results	To gather data for five random companies over a month to produce a time series graph of tone scores.
Experiment owner	@ Rohit Krishnan Somasundaram
Reviewers	<input type="checkbox"/> @ Vishal
Approver	<input type="checkbox"/> @ Vishal
Jira ticket(s)	 VS-22 - Create documentation for the BSS daily Data tracking and BSS implementation. IN PROGRESS
Status	IN PROGRESS

Experiment planning

Overview

- **What type of experiment is this?**
 - This experiment is to track the tone scores per day for five companies to get a time series comparison of their tone scores and also to assess the cost the big query incurs.

Results

Experiment start	20 Jun 2022
Experiment end	20 Jul 2022
Credits/ Cost (Big Query free trial account)	Start :\$500.00 End: 496.27
Five Companies being logged	Tesla, Google, Abbott, Intuit, Boeing
Link to saved data	https://1drv.ms/u/s!Aj7ldg8i-QXtavs29oSTrx0IR4U?e=KxBOdm

Week 1 Metrics:

Date	Tesla	Google	Abbott	Intuit	Boeing
June 20	Total documents collected: 12 Total tone value: -20.69 Average tone: -1.7242	Total documents collected: 77 Total tone value: 33.537 Average tone: 0.4355	Total documents collected: 32 Total tone value: 14.323 Average tone: 0.4476	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 13 Total tone value: 16.621 Average tone: 1.278
June 21	Total documents collected: 159 Total tone value: -359.29 Average tone: -2.2597	Total documents collected: 120 Total tone value: 116.313 Average tone: 0.9693	Total documents collected: 19 Total tone value: -10.645 Average tone: -0.5603	Total documents collected: 4 Total tone value: 14.601 Average tone: 3.65	Total documents collected: 5 Total tone value: 14.9 Average tone: 2.98
June 22	Total documents collected: 75 Total tone value: -127.0421 Average tone: -1.694	Total documents collected: 93 Total tone value: 79.58 Average tone: 0.8558	Total documents collected: 44 Total tone value: 1.579 Average tone: 0.0359	Total documents collected: 1 Total tone value: 1.915 Average tone: 1.915	Total documents collected: 2 Total tone value: -1.6966 Average tone: -0.8483
June 23	Total documents collected: 118 Total tone value: -99.236 Average tone: -0.841	Total documents collected: 106 Total tone value: 59.05 Average tone: 0.5571	Total documents collected: 47 Total tone value: -132.32 Average tone: -2.815	Total documents collected: 1 Total tone value: -2.614 Average tone: -2.614	Total documents collected: 3 Total tone value: 13.772 Average tone: 0.0508

June 24	Total documents collected: 72 Total tone value: -57.463 Average tone: -0.7981	Total documents collected: 131 Total tone value: -37.57 Average tone: -0.2882	Total documents collected: 27 Total tone value: -45.451 Average tone: -1.6834	Total documents collected: 2 Total tone value: 2.0381 Average tone: 1.0191	Total documents collected: 14 Total tone value: 69.237 Average tone: 4.59
June 25	Total documents collected: 25 Total tone value: -23.588 Average tone: -0.9435	Total documents collected: 88 Total tone value: 48.27 Average tone: 0.5486	Total documents collected: 5 Total tone value: 0.013 Average tone: 0.0027	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 4 Total tone value: 13.34 Average tone: 3.335
June 26	Total documents collected: 5 Total tone value: -4.17 Average tone: -0.8294	Total documents collected: 50 Total tone value: 3.425 Average tone: 0.0685	Total documents collected: 3 Total tone value: -4.24 Average tone: -1.413	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 3 Total tone value: -6.465 Average tone: -2.155

Week 2 Metrics:

Date	Tesla	Google	Abbott	Intuit	boeing
June 27	Total documents collected: 52 Total tone value: -86.06 Average tone: -1.6551	Total documents collected: 93 Total tone value: 35.70 Average tone: 0.384	Total documents collected: 19 Total tone value: -10.66 Average tone: -0.5616	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 7 Total tone value: 21.56 Average tone: 3.0804
June 28	Total documents collected: 69 Total tone value: -63.638 Average tone: -0.9223	Total documents collected: 88 Total tone value: 88.924 Average tone: 1.0112	Total documents collected: 34 Total tone value: 8.411 Average tone: 0.2474	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 5 Total tone value: 14.93 Average tone: 2.98
June 29	Total documents collected: 84 Total tone value: -52.516 Average tone: -0.6252	Total documents collected: 89 Total tone value: 69.079 Average tone: 0.7762	Total documents collected: 23 Total tone value: -6.516 Average tone: -0.2833	Total documents collected: 1 Total tone value: 1.081 Average tone: 1.0814	Total documents collected: 4 Total tone value: 23.958 Average tone: 5.989
June 30	Total documents collected: 74 Total tone value: -63.26 Average tone: -0.855	Total documents collected: 105 Total tone value: 25.94 Average tone: 0.2471	Total documents collected: 16 Total tone value: -25.28 Average tone: -1.580	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 4 Total tone value: 18.455 Average tone: 4.614
July 1	Total documents collected: 58 Total tone value: -62.002 Average tone: -1.069	Total documents collected: 124 Total tone value: 80.042 Average tone: 0.6455	Total documents collected: 19 Total tone value: -9.938 Average tone: -0.523	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 2 Total tone value: -5.09 Average tone: -2.4573
July 2	Total documents collected: 36 Total tone value: -28.873 Average tone: -0.8021	Total documents collected: 59 Total tone value: -98.48 Average tone: -1.662	Total documents collected: 9 Total tone value: 17.954 Average tone: 1.9949	Total documents collected: 2 Total tone value: -5.64 Average tone: -2.822	Total documents collected: 0 Total tone value: 0 Average tone: 0
July 3	Total documents collected: 28 Total tone value: -51.102 Average tone: -1.8251	Total documents collected: 42 Total tone value: -7.768 Average tone: -0.185	Total documents collected: 2 Total tone value: 0.221 Average tone: 0.1105	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 0 Total tone value: 0 Average tone: 0

Week 3 Metrics:

Date	Tesla	Google	Abbott	Intuit	Boeing
July 4	Total documents collected: 37 Total tone value: -86.36 Average tone: -2.3341	Total documents collected: 86 Total tone value: -88.072 Average tone: -1.0241	Total documents collected: 21 Total tone value: 0.155 Average tone: 0.0074	Total documents collected: 1 Total tone value: -2.304 Average tone: -2.3041	Total documents collected: 3 Total tone value: -14.924 Average tone: -4.9809

July 5	Total documents collected: 54 Total tone value: -87.232 Average tone: -1.6154	Total documents collected: 68 Total tone value: -1.282 Average tone: -0.0189	Total documents collected: 25 Total tone value: 0.943 Average tone: 0.0377	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 5 Total tone value: -3.985 Average tone: -0.7971
July 6	Total documents collected: 49 Total tone value: -30.89 Average tone: -0.6304	Total documents collected: 59 Total tone value: 32.37 Average tone: 0.5488	Total documents collected: 20 Total tone value: -8.941 Average tone: -0.4471	Total documents collected: 3 Total tone value: 7.46 Average tone: 2.487	Total documents collected: 4 Total tone value: -2.498 Average tone: -0.6247
July 7	Total documents collected: 115 Total tone value: -46.782 Average tone: -0.4068	Total documents collected: 97 Total tone value: 46.69 Average tone: 0.4813	Total documents collected: 49 Total tone value: -21.887 Average tone: -0.4467	Total documents collected: 2 Total tone value: -5.55 Average tone: -2.777	Total documents collected: 3 Total tone value: 0.661 Average tone: 0.2206
July 8	Total documents collected: 86 Total tone value: -86.549 Average tone: -1.0064	Total documents collected: 84 Total tone value: 15.61 Average tone: 0.1859	Total documents collected: 18 Total tone value: 2.625 Average tone: 0.1458	Total documents collected: 1 Total tone value: -0.587 Average tone: -0.587	Total documents collected: 3 Total tone value: -4.44 Average tone: -1.4822
July 9	Total documents collected: 57 Total tone value: -129.42 Average tone: -2.2706	Total documents collected: 47 Total tone value: 57.46 Average tone: 1.222	Total documents collected: 28 Total tone value: -93.40 Average tone: -3.336	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 7 Total tone value: -19.13 Average tone: -2.734
July 10	Total documents collected: 38 Total tone value: -47.61 Average tone: -1.2531	Total documents collected: 45 Total tone value: -10.768 Average tone: -0.2393	Total documents collected: 11 Total tone value: -39.511 Average tone: -3.592	Total documents collected: 14 Total tone value: 13.76 Average tone: 0.983	Total documents collected: 1 Total tone value: 4.063 Average tone: 4.063

Week 4 Metrics:

Date	Tesla	Google	Abbott	Intuit	Boeing
July 12	Total documents collected: 122 Total tone value: -185.479 Average tone: -1.5203	Total documents collected: 109 Total tone value: 105.920 Average tone: 0.9718	Total documents collected: 24 Total tone value: -25.36 Average tone: -1.056	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 1 Total tone value: 0 Average tone: 0
July 13	Total documents collected: 121 Total tone value: -156.367 Average tone: -1.2923	Total documents collected: 106 Total tone value: 131.548 Average tone: 1.241	Total documents collected: 43 Total tone value: -23.788 Average tone: -0.5532	Total documents collected: 2 Total tone value: 0.4547 Average tone: 0.2274	Total documents collected: 4 Total tone value: -17.32 Average tone: -4.3301
July 14	Total documents collected: 173 Total tone value: -287.509 Average tone: -1.6619	Total documents collected: 124 Total tone value: 157.566 Average tone: 1.2707	Total documents collected: 23 Total tone value: -1.553 Average tone: -0.0675	Total documents collected: 2 Total tone value: -0.209 Average tone: -0.1046	Total documents collected: 8 Total tone value: 0.1442 Average tone: 0.018
July 15	Total documents collected: 110 Total tone value: -143.441 Average tone: -1.304	Total documents collected: 89 Total tone value: 60.116 Average tone: 0.6755	Total documents collected: 35 Total tone value: -22.27 Average tone: -0.6364	Total documents collected: 0 Total tone value: 0 Average tone: 0	Total documents collected: 3 Total tone value: 1.389 Average tone: 0.4632
July 16	Total documents collected: 38 Total tone value: -40.634 Average tone: -1.0693	Total documents collected: 32 Total tone value: 0.9212 Average tone: 0.0288	Total documents collected: 12 Total tone value: -17.37 Average tone: -1.447	Total documents collected: 2 Total tone value: -4.181 Average tone: -2.0906	Total documents collected: 6 Total tone value: -9.099 Average tone: -1.5156
July 17	Total documents collected: 13 Total tone value: -13.546 Average tone: -1.042	Total documents collected: 67 Total tone value: 55.215 Average tone: 0.8241	Total documents collected: 8 Total tone value: -4.59 Average tone: -0.5741	Total documents collected: 2 Total tone value: 2.1505 Average tone: 1.0753	Total documents collected: 6 Total tone value: -7.334 Average tone: -1.222

Conclusions

Some Graphical visualizations of the data

https://10az.online.tableau.com/#/site/pudgehog/projects/244227?:origin=card_share_link

Cost Metrics

At the start of the project, we had **\$500** as free credits. and by the end of the data collection, we had spent **\$3.73** in total (including the experimental queries) and were left with **\$496.27**

Cost breakdown:



Takeaways from the experiment

- The majority of the cost incurred was during the experimental phase(around \$3.57 for 20 queries) where I had queried for 400 GB between June 20 and June 21 and the rest of the logging phase barely incurred cost(around 250 queries for just \$0.16).