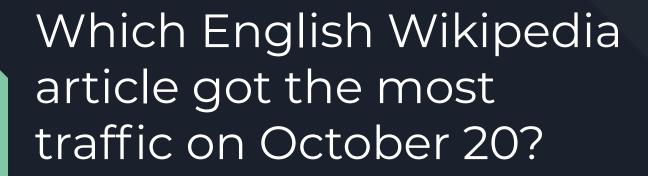
Project 1: Hive on WikiMedia

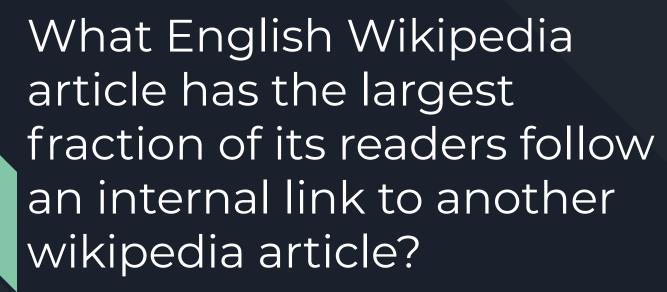
Samuel L Owens



https://dumps.wikimedia.org/other/pageviews/2020/2020-10/pageviews s-20201020-{00..23}0000.qz

- A table is created containing the number of views each article gets on each wikipedia article on 10/20
 - Each page receives 24 records, one for each hour in the day
- An intermediary table is created containing only English page records
- Another intermediary table is created combining the hourly records into one daily record

| pageviews_en_total.title | pageviews_en_total.views |
|--|--------------------------|
| Main_Page | 5961008 |
| Special:Search | 1476831 |
| | 544714 |
| Deffrey_Toobin | 321459 |
| CRajagopalachari | 210558 |
| The_Haunting_of_Bly_Manor | 185139 |
| Robert_Redford | 178779 |
| Deff_Bridges | 159163 |
| Bible | 151484 |
| Chicago_Seven | 149966 |
| Harshad_Mehta | 116907 |
| The_Trial_of_the_Chicago_7 | 115626 |
| Deaths_in_2020 | 113965 |
| (yler_Murray | 113410 |
| Abbie_Hoffman | 107768 |
| Murder_of_Robert_McCartney | 104409 |
| QAnon Caracteristics (Caracteristics Caracteristics | 103285 |
| Sisters_at_Heart | 99831 |
| Dancing_with_the_Stars_(American_season_29) | 99750 |
| 2016 United States presidential election | 91744 |

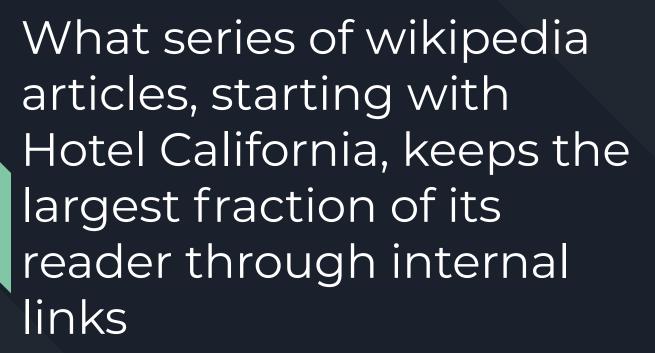


https://dumps.wikimedia.org/other/pageviews/2020/2020-10/pageviews-202009 {01..30}-{00..23}0000.gz

https://dumps.wikimedia.org/other/clickstream/2020-09/clickstream-enwiki-202 0-09.tsv.gz

- A table is created containing the number of viewers of each article from September 2020 that follow an internal link to another wikipedia page
 - Each page receives a record for each page that it links to
- An intermediary table is created that sums up the number of times a viewer of the article follows any internal link
- Another table is created containing the pageview records from September 2020
 - An intermediary table is created that sums up all of the activity for each page for the entire month
- These two tables are joined together to provide the monthly readers of a page, the number of those readers that follow internal wikipedia links, and that ratio represented as a fraction

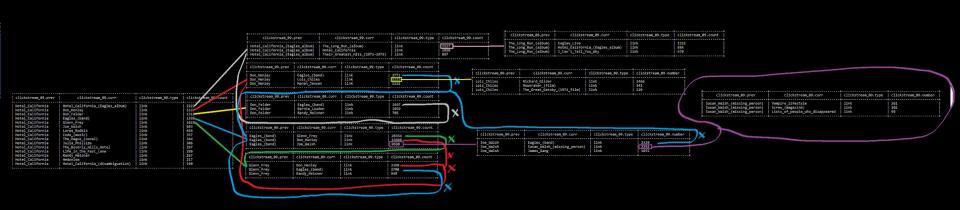
| q2_answer.title | q2_answer.views | q2_answer.links | q2_answer.link_percent |
|--|-----------------|-----------------|------------------------|
| Dune (2020 film) | 1278838 | 1201459 | 0.94 |
| COVID-19 pandemic_by_country_and_territory | 1207880 | 1093321 | 0.91 |
| Cobra Kai | 2464628 | 2241751 | 0.91 |
| Schitt's Creek | 1493588 | 1339942 | 0.9 |
| Elizabeth II | 1065054 | 922145 | 0.87 |
| Sarah Paulson | 1252257 | 987550 | 0.79 |
| Supreme Court of the United States | 1279104 | 1002716 | 0.78 |
| 2016 United States presidential election | 1052252 | 768124 | 0.73 |
| Enola Holmes (film) | 1980047 | 1356311 | 0.68 |
| 2020_United_States_presidential_election | 1151217 | 749205 | 0.65 |



https://dumps.wikimedia.org/other/pageviews/2020/2020-10/pageviews-202009 {01..30}-{00..23}0000.gz

https://dumps.wikimedia.org/other/clickstream/2020-09/clickstream-enwiki-202 0-09.tsv.gz

- Any series that loops back on itself will be disregarded
- When two series converge at one link, the series with more present viewers continues
- Hotel_California links out a total of 13,779 of its readers to internal Wikipedia pages
- From Hotel_California the top 5 internal Wikipedia pages linked to are found
- From that top 5, their top 3 linked to pages are found
- The series with the highest retention becomes clear after 4 levels
- Hotel_California -> Eagles_(band) -> Joe_Walsh -> Susan_Walsh_(missing_person) -> Vampire_Lifestyle

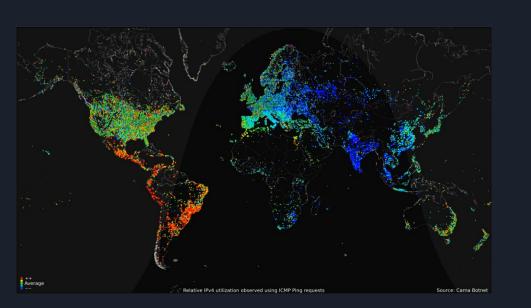




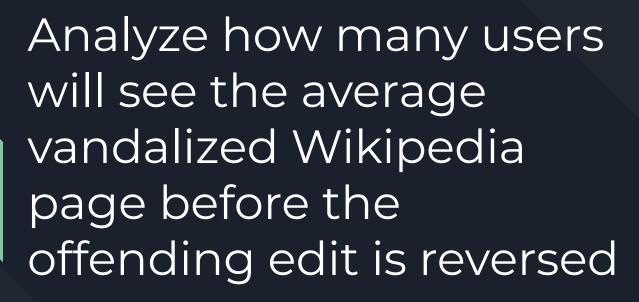
https://dumps.wikimedia.org/other/pageviews/2020/2020-10/pageviewss-20201020-{00..23}0000.gz

https://darknetdiaries.com/episode/13/

- It would appear the hours of highest activity in the US are bracketed about Business hours
 - o 0900-1800 converted forward 5 hours for UTC is 1400-2300, this time frame is attributed to the US
- The UK's hours of highest activity span approximately form midday to sunset
 - o 1300 1800 UK time is the same as UTC and need not be adjusted
- Australia appears to have some hours of activity in the early morning, followed by a lull, and more
 Activity towards the end of business hours
 - o 700 1000 and 1400 1800 ACT converts to 1800 2100 and 0100 0500 UTC
- A table is loaded for from the files representing the respective time spans
- We repeat the process of the first question on each of these tables

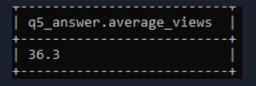


| q4_usa_answer.title | q4_usa_answer.views |
|----------------------------|---------------------|
| Main Page | 78773541 |
| Special:Search | 21294630 |
| - | 8254202 |
| Amy Coney Barrett | 2957345 |
| Ruth_Bader_Ginsburg | 2711613 |
| Dennis_Nilsen | 2620063 |
| Shooting_of_Breonna_Taylor | 1960292 |
| Tenet_(film) | 1731853 |
| q4_uk_answer.title | q4_uk_answer.views |
| Main_Page | 57771634 |
| Special:Search | 15519336 |
| | 6055166 |
| Ruth Bader Ginsburg | 2039267 |
| Amy Coney Barrett | 1579484 |
| Shooting of Breonna Taylor | 1330111 |
| Deaths in 2020 | 1141635 |
| Tenet (film) | 1128742 |
| }-== | + |
| q4_aus_answer.title | q4_aus_answer.views |
| + Main Page | 58408304 |
| Special:Search | 15612897 |
| | 6269236 |
| Ruth Bader Ginsburg | 1815496 |
| Amy Coney Barrett | 1267117 |
| S. P. Balasubrahmanyam | 1222834 |
| Tenet (film) | 1130105 |
| Deaths in 2020 | 1067903 |
| i - | |

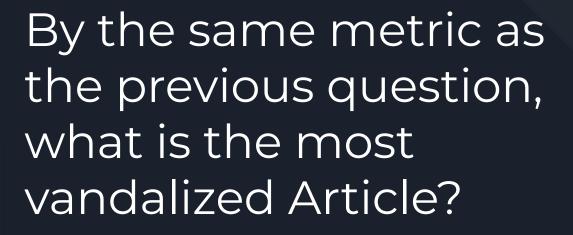


https://dumps.wikimedia.org/other/mediawiki_history/2020-10/enwiki/2020-10.enwiki.2020-09.tsv.bz2

- A table is created containing the 70 columns provided in the Wiki_History data set for September
 2020
- From the 70 only 2 are checked, one to verify that the record represents an edit being reverted and one to show the time in seconds before that edit was eventually reverted.
- From this the average time a reverted edit is visible is calculated and a table is saved
 - The table has seconds, minutes, hours, and days
 - The result is an average visibility of just over 3 days
- The average views a page gets in a month is then calculated from our previously created table of monthly view totals per page
 - This average is divided by 10 due to the average visibility time being roughly 10% of 30 days



| reverted_avg_time.seconds | reverted_avg_time.minutes | reverted_avg_time.hours | reverted_avg_time.days |
|---------------------------|---------------------------|-------------------------|------------------------|
| 282766.49 | 4712.77 | 78.55 | 3.27 |



https://dumps.wikimedia.org/other/mediawiki_history/2020-10/enwiki/2020-10.enwiki.2020-09.tsv.bz2

- A table is created containing the 70 columns provided in the Wiki_History data set for September 2020
- An intermediary table is created containing the number of times a revision is reverted on each page
- Many of the top records appear to be internal pages for logging and administration but the top appears to be "Teahouse"

| q6_answer.title | q6_answer.reversions |
|--|----------------------|
| Administrator intervention against vandalism | 14990 |
| Requests_for_page_protection | 7986 |
| Administrators noticeboard/Incidents | 7784 |
| Teahouse | 7782 |
| Usernames_for_administrator_attention | 6476 |
| Sandbox | 6174 |
| Administrator_intervention_against_vandalism/TB2 | 5004 |
| In_the_news/Candidates | 4686 |
| Help_desk | 4246 |
| Administrators'_noticeboard | 3786 |