



Wikipedia Data Crunch

Using Big Data Tools to
Analyze Our Collective Curiosity



Analytics Data Used

- **Clickstream Data**

https://meta.wikimedia.org/wiki/Research:Wikipedia_clickstream

- Data Explanation: <https://dumps.wikimedia.org/other/clickstream/readme.html>

- **Pageview Data**

https://wikitech.wikimedia.org/wiki/Analytics/Data_Lake/Traffic/Pageviews

- Data Explanation: <https://dumps.wikimedia.org/other/pageviews/readme.html>

- **Revision History**

https://wikitech.wikimedia.org/wiki/Analytics/Data_Lake/Edits/Mediawiki_history_dumps#Technical_Documentation

- Data Explanation: https://dumps.wikimedia.org/other/mediawiki_history/readme.html



Question 1:

Which English wikipedia article got the most traffic on October 20, 2020?

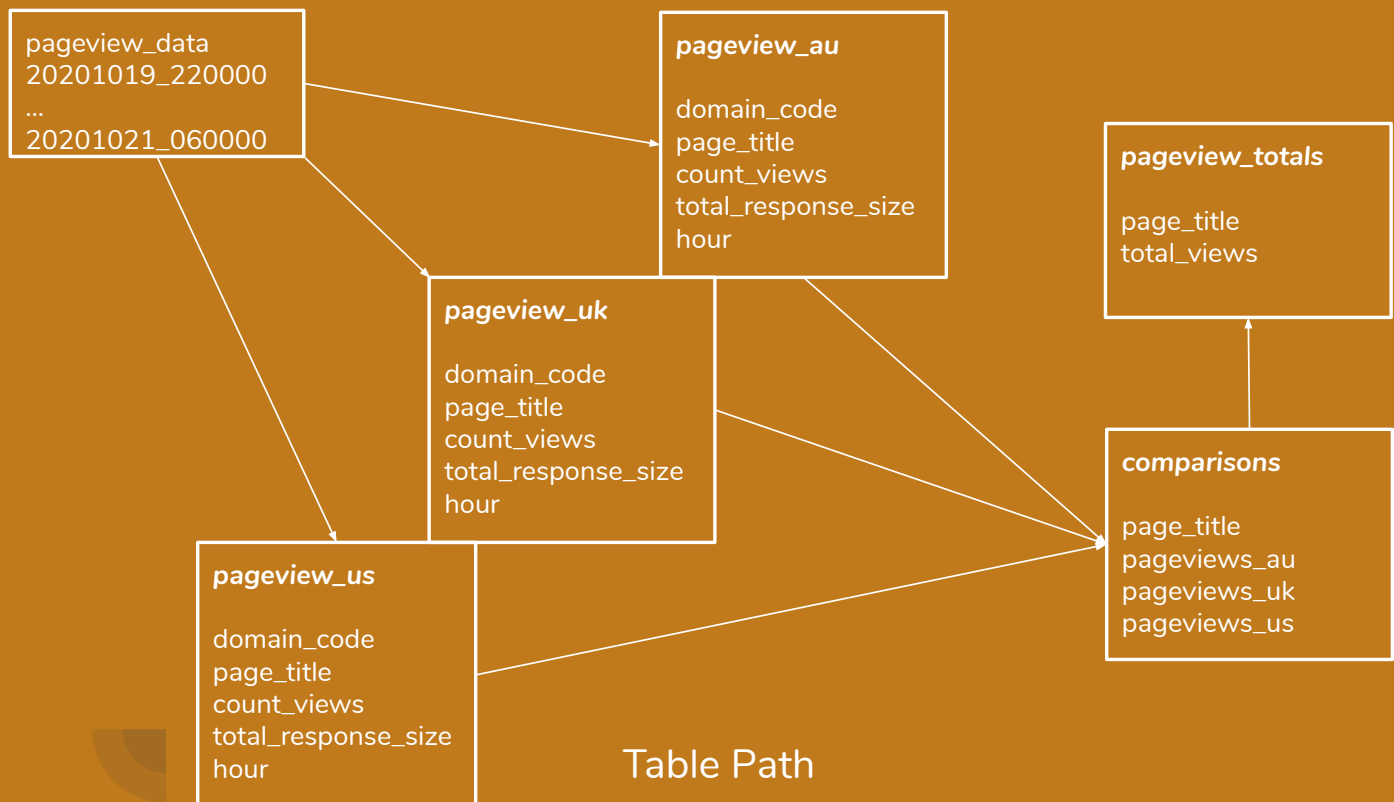


Methodology

1. Gather pageview data for the given time span.
2. Aggregate pageviews for each page.
3. Determine non-trivial highest traffic page.

Assumptions

- Use the time span for which the three anglophone countries may be using Wikipedia on 10/20/2020.
 - This span is discussed in a later question.
- Wikipedia's landing page (Main Page), Special: Search, and Hyphen-Minus are considered trivial in pageview ranking.
 - For a discussion on why hyphen-minus appears at the top of the pageview rankings, check here:
https://www.reddit.com/r/wikipedia/comments/fnwfop/aside_from_the_main_page_the_most_viewed_page_on/



```
0: jdbc:hive2://> SELECT *
. . . . . > FROM total_views
. . . . . > ORDER BY total_views DESC
. . . . . > LIMIT 20;
```

SQL Query

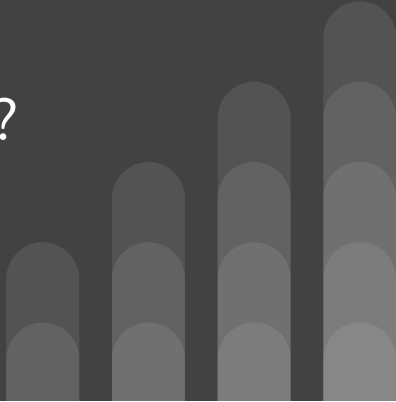
```
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.7 sec HDFS Read: 157139486 HDFS Write: 769 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 700 msec
OK
+-----+-----+
| total_views.page_title | total_views.total_views |
+-----+-----+
| Main_Page              | 7986969                  |
| Special:Search         | 2057872                  |
| -                      | 729654                   |
| Jeffrey_Toobin         | 418944                   |
| Sokushinbutsu          | 300123                   |
| The_Haunting_of_Bly_Manor | 267252                   |
| C._Rajagopalachari     | 218431                   |
| Chicago_Seven          | 218337                   |
| Robert_Redford         | 209727                   |
| Bible                  | 206792                   |
| Jeff_Bridges           | 179674                   |
| The_Trial_of_the_Chicago_7 | 165882                   |
| Abbie_Hoffman          | 162057                   |
| Deaths_in_2020        | 154081                   |
| Harshad_Mehta          | 145773                   |
| QAnon                  | 137275                   |
| Hunter_Biden           | 132765                   |
| Joe_Biden              | 131127                   |
| 2016_United_States_presidential_election | 130401                   |
| Tom_Hayden             | 128877                   |
+-----+-----+
20 rows selected (16.611 seconds)
```

Query results



Question 2:

What English wikipedia article has the largest fraction of its readers follow an internal link to another wikipedia article?



Methodology

1. Determine the number of linked views for each page (internal and external).
2. Determine the number of internal links that a page spawns.
3. Divide number of internal links by total linked views.

Assumptions

- Some pages receive fewer linked views than the number of link clicks they generate. This could be because one viewer is clicking on multiple links in a page, or it could be incompleteness of the data.
 - For analysis purposes anything with a ratio higher than 300% (i.e. three link clicks for every viewer) will be discarded.
 - A better analysis methodology would be to gather historic pageview data for the time period covered in the clickstream data, but here we'll work with the data given.
- Since very low numbers of total traffic will cause artificially high ratios, only pages with more than 3000 total traffic links will be considered.

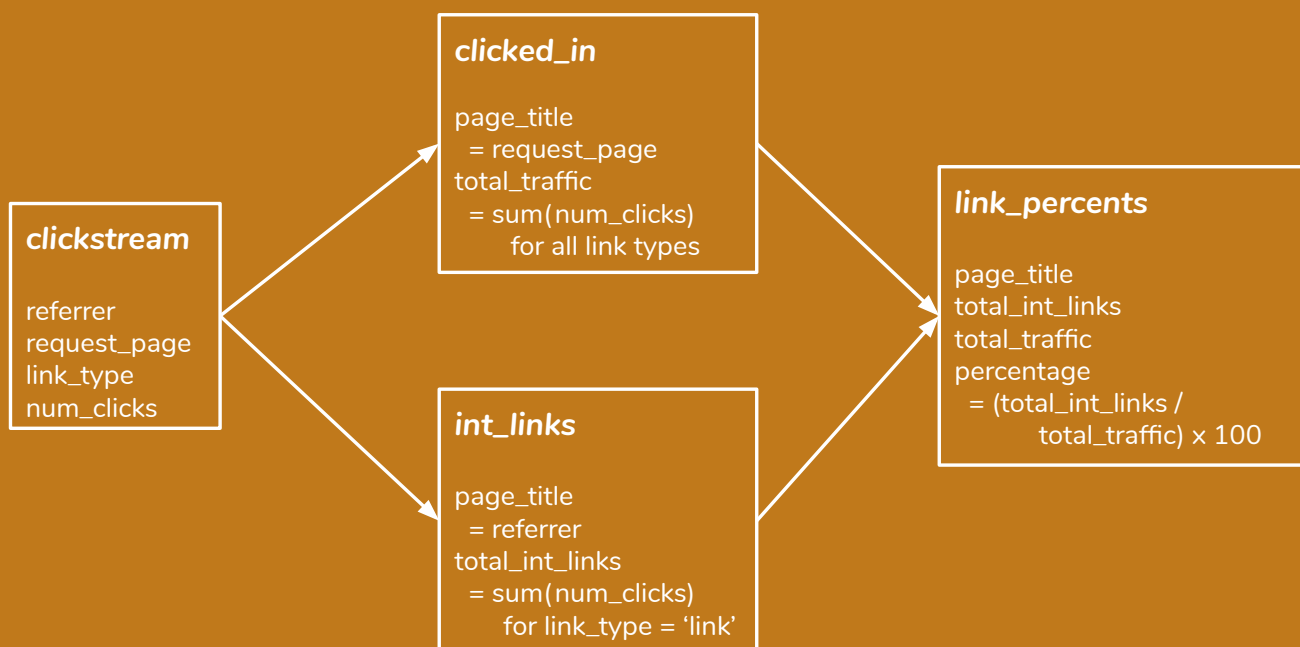


Table Path

```
0: jdbc:hive2://> SELECT *
. . . . . > FROM link_percent
. . . . . > WHERE percentage <= 300
. . . . . > AND total_traffic > 3000
. . . . . > ORDER BY percentage DESC
. . . . . > LIMIT 20;
```

SQL Query

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.86 sec HDFS Read: 68589032 HDFS Write: 1525 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 860 msec

OK

link_percent.page_title	link_percent.int_links	link_percent.total_traffic	link_percent.percentage
List_of_World_War_II_battles	40435	13767	293.71
List_of_wars_involving_the_Ottoman_Empire	9168	3124	293.47
List_of_people_who_died_by_hanging	32564	11316	287.77
List_of_interments_at_Forest_Lawn_Memorial_Park_(Hollywood_Hills)	43431	15098	287.66
List_of_Subaru_vehicles	9056	3160	286.58
List_of_land_vehicles_of_the_U.S._Armed_Forces	9287	3316	280.07
List_of_current_NFC_team_rosters	27445	9808	279.82
List_of_premature_professional_wrestling_deaths	113946	40851	278.93
List_of_armoured_fighting_vehicles_by_country	13639	4930	276.65
List_of_wars:_before_1000	15688	5679	276.25
List_of_German_military_equipment_of_World_War_II	45359	16476	275.30
List_of_critically_endangered_mammals	18398	6706	274.35
List_of_rotorcraft	9527	3494	272.67
List_of_second-generation_National_Basketball_Association_players	14948	5511	271.24
List_of_anti-aircraft_weapons	14907	5508	270.64
British_Commonwealth_armoured_fighting_vehicles_of_World_War_II	9705	3588	270.48
List_of_child_abuse_cases_featuring_long-term_detention	34603	12798	270.38
List_of_baseball_players_who_died_during_their_careers	24378	9027	270.06
List_of_pornographic_performers_by_decade	467454	173587	269.29
Types_of_swords	51361	19095	268.98

20 rows selected (13.534 seconds)

Query results

Question 3:

What series of wikipedia articles, starting with Hotel California, keeps the largest fraction of its readers clicking on internal links?

Methodology

1. Gather all pages linked to from the “home page”.
2. Join the click_stream table to the link_percentages table.
3. Order the linked pages by their percentage of internal links.
4. Make the top page our new “home page”.
5. Repeat.

Assumptions

- Again, low total traffic will result in artificially high link to viewer ratios, but by ordering the results by their link percentage and limiting the query to the first 20 results we should avoid any trivially high-ratio pages.

```
Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 80.75 sec HDFS Read: 1491015395 HDFS Write: 3877 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.2 sec HDFS Read: 12794 HDFS Write: 873 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 22 seconds 950 msec
OK
```

request	lp.percentage
Eagles_(band)	96.62
Jethro_Tull_(band)	87.02
The_Twilight_Zone_(1959_TV_series)	79.53
Steely_Dan	79.13
American_Horror_Story:_Hotel	74.29
Cameron_Crowe	67.32
Desperado	64.56
Anton_LaVey	63.33
Hotel_California_(disambiguation)	61.80
John_Fowles	61.64
Mercedes-Benz	57.12
The_Big_Lebowski	55.92
20th_Annual_Grammy_Awards	54.60
Close_Encounters_of_the_Third_Kind	53.43
The_Royal_Scam	52.34
Grammy_Award_for_Record_of_the_Year	49.86
Taxi_Driver	49.71
Church_of_Satan	44.97
Hotel_California_(Eagles_album)	44.90
Private_Times...and_the_Whole_9!	44.33

20 rows selected (45.603 seconds)

```
0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percent AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Hotel_California'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;
```

Step 1: Hotel_California

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 79.81 sec HDFS Read: 1491015356 HDFS Write: 8190 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.2 sec HDFS Read: 17107 HDFS Write: 773 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 22 seconds 10 msec
OK

```

request	lp.percentage
Eagles_discography	125.90
The_Rolling_Stones	122.16
Journey_(band)	117.21
The_Beach_Boys	116.20
Aerosmith	112.27
Deep_Purple	111.90
The_Doors	106.48
Pink_Floyd	106.31
Yes_(band)	106.28
Earth,_Wind_&_Fire	105.49
Led_Zeppelin	104.30
Emerson,_Lake_&_Palmer	103.93
The_Beatles	101.66
Fleetwood_Mac	98.28
Guns_N'_Roses	97.93
Grammy_Award_for_Album_of_the_Year	97.60
Queen_(band)	95.19
Bee_Gees	89.11
Crosby,_Stills,_Nash_&_Young	88.70
The_Byrds	83.16

20 rows selected (46.121 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percent AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Eagles_(band)'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 2: Eagles_(band)

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 80.12 sec HDFS Read: 1491015421 HDFS Write: 3066 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.26 sec HDFS Read: 11983 HDFS Write: 970 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 22 seconds 380 msec
OK

```

request	lp.percentage
Olivia_Newton-John_albums_discography	154.61
Electric_Light_Orchestra_discography	146.68
Earth,_Wind_&_Fire_discography	144.03
Linda_Ronstadt_discography	133.11
Led_Zeppelin_discography	127.62
Garth_Brooks_discography	107.38
Eagles_(band)	96.62
Don_Henley_discography	86.19
Eagles_(box_set)	66.37
Selected_Works:_1972-1999	55.58
The_Very_Best_of_the_Eagles	54.93
Eagles_Live	54.11
Eagles_Greatest_Hits,_Vol._2	53.78
On_the_Border	51.98
Adult_Contemporary_(chart)	50.01
The_Very_Best_Of_(Eagles_album)	46.34
One_of_These_Nights	46.29
Hotel_California_(Eagles_album)	44.90
Farewell_1_Tour:_Live_from_Melbourne	44.84
Hell_Freezes_Over	43.70

20 rows selected (47.444 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percent AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Eagles_discography'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 3: Eagles_discography

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 77.98 sec HDFS Read: 1491015668 HDFS Write: 2819 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.26 sec HDFS Read: 11736 HDFS Write: 1015 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 20 seconds 240 msec
OK

```

request	lp.percentage
Olivia_Newton-John_singles_discography	78.57
One_Woman's_Live_Journey	76.09
Xanadu_(soundtrack)	57.34
Highlights_from_The_Main_Event	56.36
Clearly_Love	49.88
Love_Performance	48.62
Don't_Stop_Believin'_(album)	46.97
Olivia's_Greatest_Hits_Vol._2	45.79
Grease:_The_Original_Soundtrack_from_the_Motion_Picture	45.44
Back_with_a_Heart	44.20
Long_Live_Love_(album)	41.95
Back_to_Basics:_The_Essential_Collection_1971-1992	41.43
Olivia_Newton-John	40.47
Two_of_a_Kind_(soundtrack)	40.45

```

0: jdbc:hive2://> SELECT request, lp.percentage
> FROM click_stream
> JOIN link_percents AS lp
> ON request = lp.page_title
> WHERE prev = 'Olivia_Newton-John_albums_discography'
> ORDER BY lp.percentage DESC
> LIMIT 20;
20 rows selected (45.629 seconds)

```

Step 4: Olivia_Newton-John_albums_discography

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 79.99 sec HDFS Read: 1491015681 HDFS Write: 4016 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.5 sec HDFS Read: 12933 HDFS Write: 991 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 22 seconds 490 msec
OK

```

request	lp.percentage
Olivia_Newton-John_albums_discography	154.61
Xanadu_(soundtrack)	57.34
Clearly_Love	49.88
Don't_Stop_Believin'_(album)	46.97
Olivia's_Greatest_Hits_Vol._2	45.79
Grease:_The_Original_Soundtrack_from_the_Motion_Picture	45.44
Tied_Up	45.38
Back_with_a_Heart	44.20
After_Dark_(Andy_Gibb_album)	42.12
Long_Live_Love_(album)	41.95
Back_to_Basics:_The_Essential_Collection_1971-1992	41.43
Olivia_Newton-John	40.47
Two_of_a_Kind_(soundtrack)	40.45

```

0: jdbc:hive2://> SELECT request, lp.percentage
> FROM click_stream
> JOIN link_percents AS lp
> ON request = lp.page_title
> WHERE prev = 'Olivia_Newton-John_singles_discography'
> ORDER BY lp.percentage DESC
> LIMIT 20;
20 rows selected (46.544 seconds)

```

Step 5: Olivia_Newton-John_singles_discography

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 78.92 sec HDFS Read: 1491015434 HDFS Write: 1601 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.18 sec HDFS Read: 10518 HDFS Write: 987 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 21 seconds 100 msec
OK

```

request	lp.percentage
A_Box_of_Their_Best	88.92
Four_Light_Years	88.22
Electric_Light_Orchestra	87.41
The_Tubes	64.49
Discovery_(Electric_Light_Orchestra_album)	51.67
Time_(ELO_album)	45.26
Xanadu_(film)	45.22
Olivia_Newton-John	40.47
Physical_(album)	38.93
Totally_Hot	37.02
Xanadu_(Olivia_Newton-John_and_Electric_Light_Orchestra_song)	35.11
All_Over_the_World_(Electric_Light_Orchestra_song)	32.39
Suddenly_(Olivia_Newton-John_and_Cliff_Richard_song)	32.08
Musical_film	30.82
Cliff_Richard	30.30
Magic_(Olivia_Newton-John_song)	30.29
I'm_Alive_(Electric_Light_Orchestra_song)	29.18
James_Newton_Howard	28.56
Gene_Kelly	28.17
Don't_Walk_Away_(Electric_Light_Orchestra_song)	26.43

20 rows selected (46.459 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percents AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Xanadu_(soundtrack)'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 6: Xanadu_(soundtrack)

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 77.32 sec HDFS Read: 1491015434 HDFS Write: 786 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.34 sec HDFS Read: 9703 HDFS Write: 282 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 19 seconds 660 msec
OK

```

request	lp.percentage
Four_Light_Years	88.22
Electric_Light_Orchestra	87.41
Xanadu_(soundtrack)	57.34
ELO's_Greatest_Hits	35.19
Doin'_That_Crazy_Thing	15.46

5 rows selected (46.131 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percents AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'A_Box_of_Their_Best'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 7: A_Box_of_Their_Best


```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 77.8 sec HDFS Read: 1491015383 HDFS Write: 701 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.2 sec HDFS Read: 9588 HDFS Write: 203 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 20 seconds 0 msec
OK

```

request	lp.percentage
Electric_Light_Orchestra	87.41
Xanadu_(soundtrack)	57.34
Time_(ELO_album)	45.26

3 rows selected (46.852 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percent AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Four_Light_Years'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 8: Four_Light_Years

```

Stage-Stage-1: Map: 7 Reduce: 6 Cumulative CPU: 78.5 sec HDFS Read: 1491015499 HDFS Write: 6230 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 2.39 sec HDFS Read: 15147 HDFS Write: 772 SUCCESS
Total MapReduce CPU Time Spent: 1 minutes 20 seconds 890 msec
OK

```

request	lp.percentage
Electric_Light_Orchestra_discography	146.68
Elo	144.61
The_Flaming_Lips	108.35
Led_Zeppelin	104.30
Emerson,_Lake_&_Palmer	103.93
The_Beatles	101.66
Fleetwood_Mac	98.28
The_Moody_Blues	97.88
The_Pussycat_Dolls	96.94
Queen_(band)	95.19
Take_That	89.16
Supertramp	88.70
Super_Furry_Animals	78.02
ELO_Part_II	77.29
Daft_Punk	72.24
The_Move	71.27
Bob_Marley	70.90
List_of_Electric_Light_Orchestra_members	69.23
Wizzard	63.70
Traveling_Wilburys	60.86

20 rows selected (47.42 seconds)

```

0: jdbc:hive2://> SELECT request, lp.percentage
. . . . . > FROM click_stream
. . . . . > JOIN link_percent AS lp
. . . . . > ON request = lp.page_title
. . . . . > WHERE prev = 'Electric_Light_Orchestra'
. . . . . > ORDER BY lp.percentage DESC
. . . . . > LIMIT 20;

```

Step 9: Electric_Light_Orchestra



Final Path

Question 4:

Find an example of an English wikipedia article that is relatively more popular in the UK.
Find the same for the US and Australia.



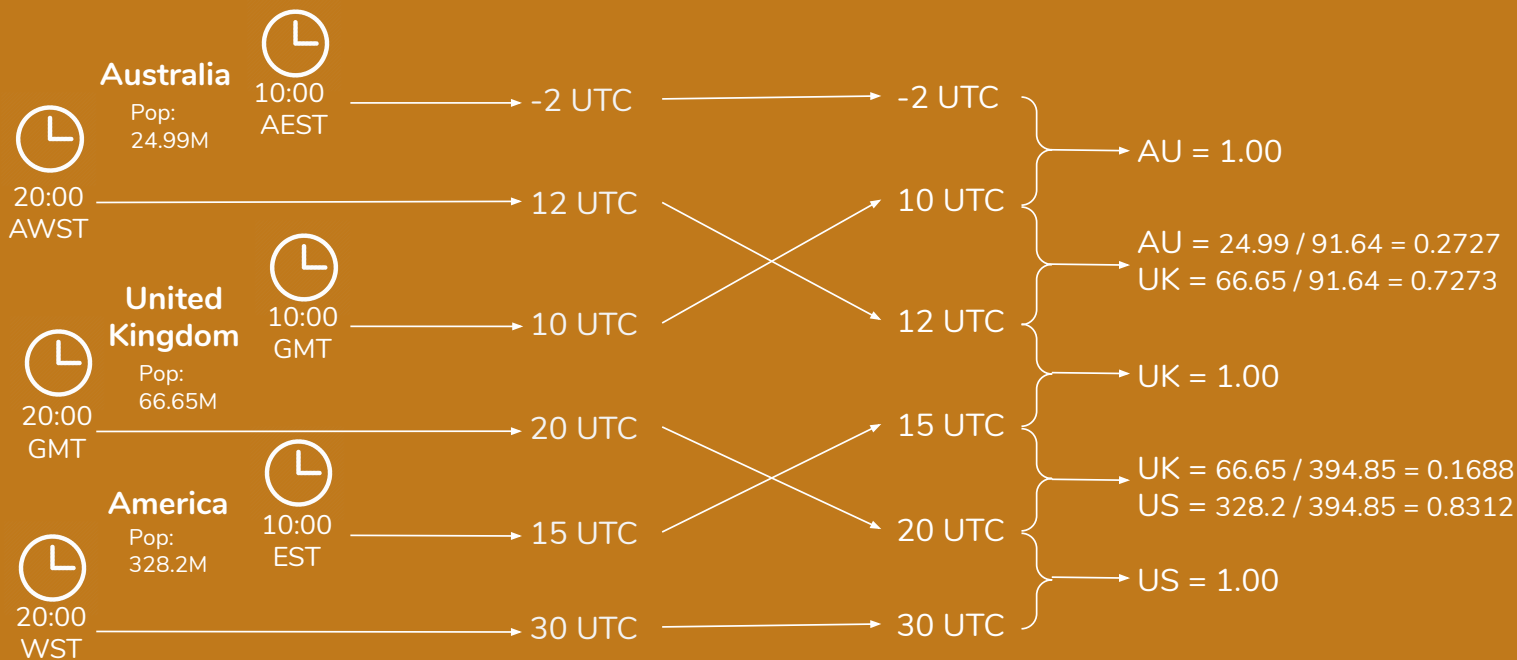
Methodology

1. Determine appropriate internet activity times for each country.
2. Translate those times into UTC.
3. Determine how to split traffic in overlapping time spans.
4. Create temporary tables for each country to hold data for given time spans. Include traffic split weights.
5. Multiply logged pageviews by weighted fractions and compare.



Assumptions

- People are most likely not using Wikipedia first thing in the morning or last thing at night → 10:00 AM - 8:00 PM (10:00 - 20:00).
- In time periods where there is an overlap between the countries: split traffic based on ratio of populations.
- For the US and Australia (which span multiple time zones) “start” traffic at 10:00 AM in the earliest time zone and end it at 20:00 (8:00 PM) in the latest time zone.



Time zone conversion into timeline of 10/20/2020 in UTC.

```
0: jdbc:hive2://> SELECT *  
  . . . . . > FROM comparison  
  . . . . . > WHERE uk_views > us_views  
  . . . . . >   AND uk_views > au_views  
  . . . . . > ORDER BY uk_views DESC  
  . . . . . > LIMIT 20;
```

First SQL Statement: Popular in the UK

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.11 sec HDFS Read: 209910215 HDFS Write: 1023 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 110 msec
OK

comparison.page_title	comparison.us_views	comparison.uk_views	comparison.au_views
F5_Networks	19196	43185	9930
Big_Muskie	10629	20155	18711
List_of_countries_by_GDP_(nominal)	10588	15827	11298
Daniel_Sams_(cricketer)	11364	15614	96
Centenarian	9739	15442	8153
Frankenstein_Castle	1696	8899	5240
Firass_Dirani	2265	8796	3607
Law_&_Order:_Special_Victims_Unit/Season_20	0	6890	2183
American_comic_book	1081	5489	2821
Aaron_Swartz	3471	5351	1927
Rampage_(2018_film)	3143	5320	3788
Michael_Anton	3216	4739	810
Blue_Zone	2754	4035	1725
Postcolonialism	745	4027	1909
Michael_Hastings_(journalist)	2798	3740	221
The_Girl_Next_Door_(2004_film)	1944	3441	1796
Kristian_Opseth	1316	3241	882
Paperback_Hero_(1999_film)	410	2854	1462
cutie_pie	1188	2846	376
Zangilan_District	2385	2437	520

20 rows selected (16.678 seconds)

First Results: More popular in the UK

```
0: jdbc:hive2://> SELECT *  
  . . . . . > FROM comparison  
  . . . . . > WHERE us_views > uk_views  
  . . . . . >   AND us_views > au_views  
  . . . . . > ORDER BY us_views DESC  
  . . . . . > LIMIT 20;
```

Second SQL Statement: Popular in the US

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.57 sec HDFS Read: 209910215 HDFS Write: 1009 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 570 msec
OK

comparison.page_title	comparison.us_views	comparison.uk_views	comparison.au_views
Main_Page	3798632	1364056	2824281
Special:Search	978073	370043	709756
-	345875	131167	252612
Sokushinbutsu	299177	481	465
C._Rajagopalachari	182501	35524	406
The_Haunting_of_Bly_Manor	127259	29919	110074
Mookie_Betts	112607	2078	7416
Three_Red_Banners	108174	2581	152
Chicago_Seven	100049	22759	95529
Bible	98711	33952	74129
Alexandria_Ocasio-Cortez	83299	4344	15339
The_Trial_of_the_Chicago_7	77997	19489	68396
Deaths_in_2020	76690	24740	52651
Abbie_Hoffman	74363	14622	73072
Harshad_Mehta	71122	29513	45138
2016_United_States_presidential_election	66849	15803	47749
Hunter_Biden	64820	15669	52276
Joe_Biden	63821	16946	50360
End_SARS	63655	6691	11496
Tyler_Glasnow	63459	758	1975

20 rows selected (16.981 seconds)

Second Results: More popular in the US

```
0: jdbc:hive2://> SELECT *  
  . . . . . > FROM comparison  
  . . . . . > WHERE au_views > uk_views  
  . . . . . >   AND au_views > us_views  
  . . . . . > ORDER BY au_views DESC  
  . . . . . > LIMIT 20;
```

Third SQL Statement: Popular in Australia

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.84 sec HDFS Read: 209910215 HDFS Write: 1040 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 840 msec
OK

comparison.page_title	comparison.us_views	comparison.uk_views	comparison.au_views
Jeffrey_Toobin	168187	57121	193636
Kyler_Murray	13551	7685	97635
Robert_Redford	70816	41428	97483
Sisters_at_Heart	3690	4725	97258
Jeff_Bridges	59613	35354	84707
Dancing_with_the_Stars_(American_season_29)	20922	8159	79787
Murder_of_Robert_McCartney	2476	24092	78257
Killing_in_the_Name	914	1064	51174
Microsoft_Office	47060	19352	49238
SSC_Tuatara	39627	17659	47022
Andy_Dalton	6318	3007	47019
Lovecraft_Country_(TV_series)	39734	8472	40819
Anthony_Fauci	26076	10437	40639
Josh_Allen_(quarterback)	3655	1573	34549
Patrick_Mahomes	8180	2857	34108
Watts_family_murders	32782	9283	32817
Lola_Van_Wagenen	25165	14788	31893
Chrisell_Stause	11890	2522	31754
Kirstie_Alley	11169	5777	31050
Budda_Baker	6633	2626	30667

20 rows selected (16.006 seconds)

Third Results: More popular in Australia

Question 5:

How many users will see the average vandalized wikipedia page before the offending edit is reversed?



Methodology

1.




Assumptions

•




Question 6:

Run an analysis you find interesting on the wikipedia datasets we're using.



My Selection:

Which of my favorite 10 animes has the highest view total?



Methodology

Similar to question one, I'll check and compare the total pageviews of 10 of my favorite anime shows, which are:

- | | |
|---------------------|-----------------------|
| 1. Attack on Titan | 6. Eden of the East |
| 2. Baccano! | 7. FLCL |
| 3. Cowboy Bebop | 8. Ghost in the Shell |
| 4. Crayon Shin-chan | 9. Mushishi |
| 5. Death Note | 10. Spice and Wolf |

```
0: jdbc:hive2://> SELECT *
. . . . . > FROM total_views
. . . . . > WHERE page_title = 'Attack_on_Titan'
. . . . . > OR page_title = 'Baccano!'
. . . . . > OR page_title = 'Cowboy_Bebop'
. . . . . > OR page_title = 'Crayon_Shin-chan'
. . . . . > OR page_title = 'Death_Note'
. . . . . > OR page_title = 'Eden_of_the_East'
. . . . . > OR page_title = 'FLCL'
. . . . . > OR page_title = 'Ghost_in_the_Shell'
. . . . . > OR page_title = 'Mushishi'
. . . . . > OR page_title = 'Spice_and_Wolf'
. . . . . > ORDER BY total_views DESC;
```

total_views.page_title	total_views.total_views
Attack_on_Titan	12439
Death_Note	7095
Cowboy_Bebop	4706
Ghost_in_the_Shell	2781
Crayon_Shin-chan	2553
FLCL	1856
Spice_and_Wolf	753
Baccano!	684
Mushishi	680
Eden_of_the_East	439

10 rows selected (15.541 seconds)

Results

Github Repository

https://github.com/sean-horner/revature_project_1.git