

BDA MINI-PROJECT

Youtube Data Analysis

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GROUP 3

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AGENDA

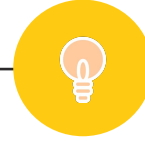
- Problem statement
- Objectives
- Dataset
- Tools Used(Brief Explanation)
- System Architecture
- Output
- Visualization Screenshots (PowerBi)
- Conclusion



PROBLEM STATEMENT

"YouTube has over a billion users and every day people watch hundreds of millions of hours on YouTube and generate billions of views".

Every day, people across the world are uploading 1.2 million videos to YouTube, or over 100 hours per minute and this number is ever increasing. To analyze and understand the activity occurring on such a massive scale, a relational SQL database is not enough. Such kind of data is well suited to a massively parallel and distributed system like Hadoop.



OBJECTIVES

The main objective of this project is to focus on how data generated from YouTube can be mined and utilized by different companies to make targeted, real time and informed decisions about their product that can increase their market share.

DATASET

data - Excel

Srijan Gupta

Share

POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format.

Don't show again

Save As...

L28

2019-02-21T15:15:13Z

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	title	videoid	categoryid	Category	Duration	viewCount	commentCount	channelId	likeCount	dislikeCount	language	publishedAt	
2	Lordi - Lebt denn der alte Holzmichl noch?	cYe12DjjyDA	10	Music	PT3M22S	155694	68	UCPp1Yv3fMb8aoZjvAXRslg	236	112	en-GB	2008-11-02T21:02:28Z	
3	De Randfichten - Steig EiMir Fahn in der Tschechei	6NlyvdA6vkE	10	Music	PT3M38S	907	0	UCPp1Yv3fMb8aoZjvAXRslg	15	0	en-GB	2020-09-12T13:45:16Z	
4	De Spackfettbemmm	VfnbdBt3nGc	10	Music	PT3M41S	128320	6	UCPp1Yv3fMb8aoZjvAXRslg	691	47	en-GB	2014-12-25T17:29:35Z	
5	De Randfichten - Du Kleine Fliege	4IS3qWAHxN4	10	Music	PT1M35S	313220	45	UCPp1Yv3fMb8aoZjvAXRslg	870	107	en-GB	2012-01-09T12:49:24Z	
6	De Randfichten - Das kommt vom Rudern 2006	d68_GPDLoEW	10	Music	PT3M2S	148745	14	UCPp1Yv3fMb8aoZjvAXRslg	195	9	en-GB	2007-12-07T22:25:27Z	
7	GrÃss Gott Mei Arzgebirg	7Nlpjcrrm2M	10	Music	PT3M4S	48335	13	UCPp1Yv3fMb8aoZjvAXRslg	213	20	en-GB	2014-11-09T01:45:56Z	
8	De Randfichten - s Alte Kanapee	eQPTQJOH6c	10	Music	PT2M38S	111672	4	UCPp1Yv3fMb8aoZjvAXRslg	350	27	en-GB	2012-10-05T20:31:11Z	
9	Heja Heja Ho - De Randfichten Sei Do (Live From G	rY8fIA3WcB4	10	Music	PT5M18S	28532	1	UCPp1Yv3fMb8aoZjvAXRslg	154	9	en-GB	2015-07-08T02:46:34Z	
10	Dr Holzmichl (Live)	diIZSiMHjYk	10	Music	PT7M57S	33756	5	UCPp1Yv3fMb8aoZjvAXRslg	180	17	en-GB	2014-11-08T18:43:06Z	
11	Jetzt geht die Party richtig los (Remix)	MD-mIYCK_kU	10	Music	PT3M32S	34559	1	UCPp1Yv3fMb8aoZjvAXRslg	27	7	en-GB	2015-07-09T13:42:24Z	
12	De Lustigen Holzackerleit	TVxuzjiT71l	10	Music	PT2M32S	773	0	UCPp1Yv3fMb8aoZjvAXRslg	5	1	en-GB	2018-08-16T14:10:18Z	
13	De Randfichten - Rups am Grill 2010	DWBBOUk3Hls	10	Music	PT3M8S	156983	54	UCPp1Yv3fMb8aoZjvAXRslg	687	123	en-GB	2010-08-09T19:23:18Z	
14	Do Pfeift dr Fuchs	3x36fIQ9QZ4o	10	Music	PT2M57S	2799	1	UCPp1Yv3fMb8aoZjvAXRslg	13	2	en-GB	2018-07-06T02:11:07Z	
15	Mei Schiene Laadergack	TQNriDgtDtg	10	Music	PT3M30S	22849	5	UCPp1Yv3fMb8aoZjvAXRslg	134	15	en-GB	2014-12-25T17:23:45Z	
16	De Randfichten - Wir feiern heut ne Party 2012	8DKe858WhJU	10	Music	PT2M53S	12548	2	UCPp1Yv3fMb8aoZjvAXRslg	45	3	en-GB	2012-07-04T04:14:52Z	
17	De Randfichten - Ich bin gut drauf Offizielles Musik	_NBK_oIDds8	10	Music	PT3M6S	61063	22	UCPp1Yv3fMb8aoZjvAXRslg	236	28	en-GB	2015-09-11T16:00:01Z	
18	De Randfichten - Die alten Zeiten sind vorbei 2011	BbW7IKvOto	10	Music	PT3M37S	65769	13	UCPp1Yv3fMb8aoZjvAXRslg	321	13	en-GB	2011-06-05T14:06:27Z	
19	Ich hatt heit Nacht n Traam	9djKnaaOs_c	10	Music	PT3M27S	4583	0	UCPp1Yv3fMb8aoZjvAXRslg	31	1	en-GB	2018-07-04T23:34:06Z	
20	Sauerkraut	m58vk6Civ8A	10	Music	PT3M40S	5339	0	UCPp1Yv3fMb8aoZjvAXRslg	30	5	en-GB	2018-05-12T03:33:45Z	
21	De Randfichten - Kaan Staapilz find ich net 2008	VAUF3h8VPok	10	Music	PT2M40S	51541	4	UCPp1Yv3fMb8aoZjvAXRslg	145	8	en-GB	2009-09-24T04:53:21Z	
22	Dann ist Weihnacht	20alom6tFWO	10	Music	PT3M9S	10206	0	UCPp1Yv3fMb8aoZjvAXRslg	70	3	en-GB	2015-01-29T12:53:32Z	
23	De Randfichten - Lebt den alte Holzmichel noch - L	XERpMO6CO3A	10	Music	PT3M48S	3228	0	UCPp1Yv3fMb8aoZjvAXRslg	11	5	en-GB	2016-08-16T11:55:06Z	
24	De Randfichten - Lebt denn der alte Winter-Holzmi	E-usnoPVOKw	10	Music	PT3M44S	78746	2	UCPp1Yv3fMb8aoZjvAXRslg	99	8	en-GB	2008-12-01T06:46:27Z	
25	Klitscherlied	8Q6S8slK5oc	10	Music	PT2M58S	6613	0	UCPp1Yv3fMb8aoZjvAXRslg	46	1	en-GB	2014-11-08T23:27:15Z	
26	De Randfichten - Alles was ich brauch 2011	coFial5loZ5w	10	Music	PT2M40S	21973	2	UCPp1Yv3fMb8aoZjvAXRslg	73	1	en-GB	2011-09-24T06:41:19Z	
27	Drham Is Drham	coWpWNUiHno	10	Music	PT3M48S	6191	0	UCPp1Yv3fMb8aoZjvAXRslg	44	4	en-GB	2014-11-08T08:12:16Z	
28	De Randfichten - Hey Du lass doch bitte mein klein	Ox_OqP-_JfM	10	Music	PT2M24S	5070	2	UCPp1Yv3fMb8aoZjvAXRslg	29	2	en-GB	2019-02-21T15:15:13Z	
29	Nur noch mal heim - De Randfichten	4KMfYYoi8s	10	Music	PT3M33S	66628	31	UCPp1Yv3fMb8aoZjvAXRslg	209	10	en-GB	2011-12-22T19:59:40Z	
30	Hab Dank DatÃr	hVRxhfskNH8	10	Music	PT3M2S	3458	0	UCPp1Yv3fMb8aoZjvAXRslg	24	2	en-GB	2014-12-25T17:30:12Z	
31	Heilig-Obnd-Lied	rpCyXQAYlu0	10	Music	PT3M10S	4922	0	UCPp1Yv3fMb8aoZjvAXRslg	42	1	en-GB	2014-11-08T20:36:53Z	
32	Randfichten - Rups am Grill der Grill Hit	cpDhWcVPNg8	10	Music	PT3M11S	27676	0	UCPp1Yv3fMb8aoZjvAXRslg	62	17	en-GB	2010-08-02T13:30:33Z	
33	Mann... (The 1980s)	hVpWpWNUiHno	10	Music	PT3M48S	6191	0	UCPp1Yv3fMb8aoZjvAXRslg	44	4	en-GB	2014-11-08T08:12:16Z	

data

Ready Accessibility: Unavailable

100%

Tools Used



HADOOP

1

NODE JS

2

CASSANDRA

3

POWER BI

4

HADOOP



MapReduce
(Distributed Computation)

HDFS
(Distributed Storage)

YARN Framework

Common Utilities

INTRODUCTION

- Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models.
- It is designed to scale up from single servers to thousands of machines, each offering local computation and storage.

FEATURES

- **Open Source:**

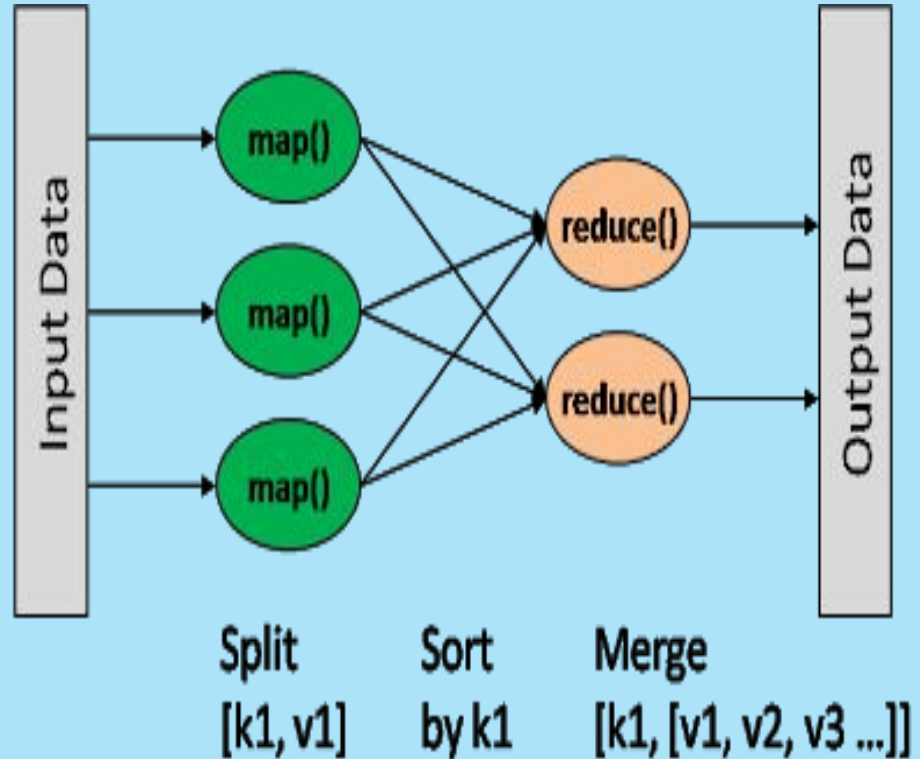
It is an open-source project the source-code is available online for anyone to understand it or make some modifications as per their industry requirement.

- **Highly Scalable Cluster:**

A large amount of data is divided into multiple inexpensive machines in a cluster which is processed in parallel.

MAP REDUCE:

- MapReduce is a processing technique and a program model for distributed computing based on java.
- The MapReduce algorithm contains two important tasks, namely Map and Reduce. Map takes a set of data and converts it into another set of data, where individual elements are broken down into tuples (key/value pairs).
- Secondly, reduce task, which takes the output from a map as an input and combines those data tuples into a smaller set of tuples.



NODE JS



INTRODUCTION

- Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine).
- Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications.

FEATURES

- Asynchronous and Event Driven – All APIs of Node.js library are asynchronous, that is, non-blocking.
- Very Fast – Being built on Google Chrome's V8 JavaScript Engine, Node.js library is very fast in code execution.
- No Buffering – Node.js applications never buffer any data. These applications simply output the data in chunks.

CASSANDRA



INTRODUCTION

- Apache Cassandra is a highly scalable, high-performance distributed database
- It is a type of NoSQL database.

FEATURES

- **Highly Fault Tolerant:**

If any node in the cluster fails, other nodes will take over and complete the work.

- **Easy Data Distribution:**

Data distribution in Cassandra is very easy because it provides the flexibility to distribute data where you need by replicating data across multiple data centers.

- **Transaction Support:**

Cassandra supports properties like Atomicity, Consistency, Isolation, and Durability (ACID).

Power BI



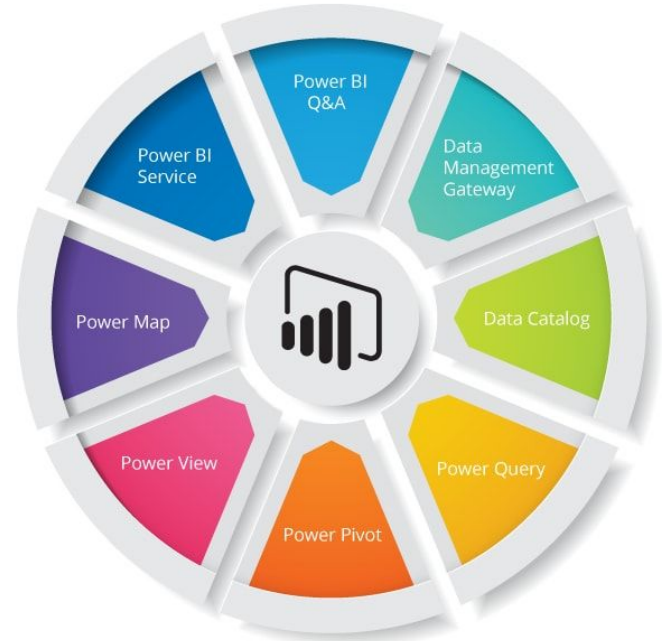
Power BI

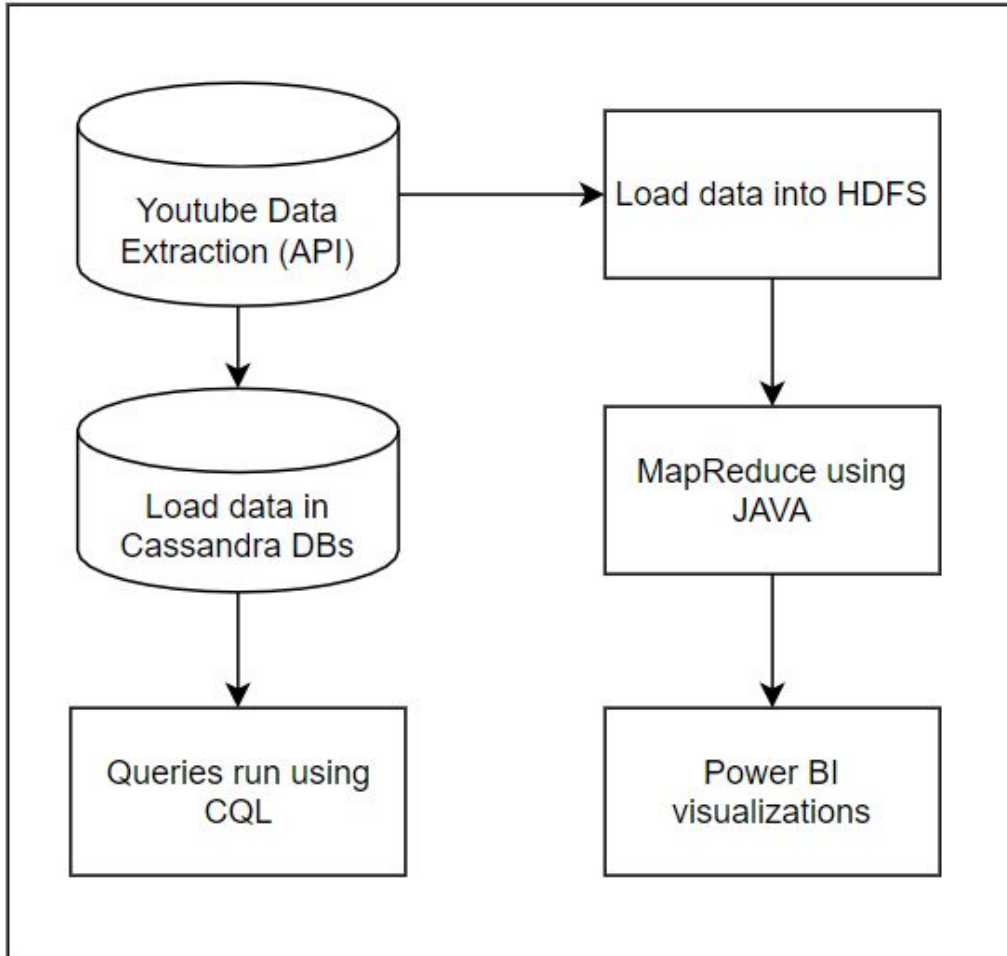
INTRODUCTION

- Unify data from many sources to create interactive, immersive dashboards and reports that provide actionable insights and drive business results.

KEY FEATURES

- Connect to data
- Transform and model the data
- Create charts and graphs
- Create reports and dashboards that are collections of visuals
- Share reports with others using the Power BI service

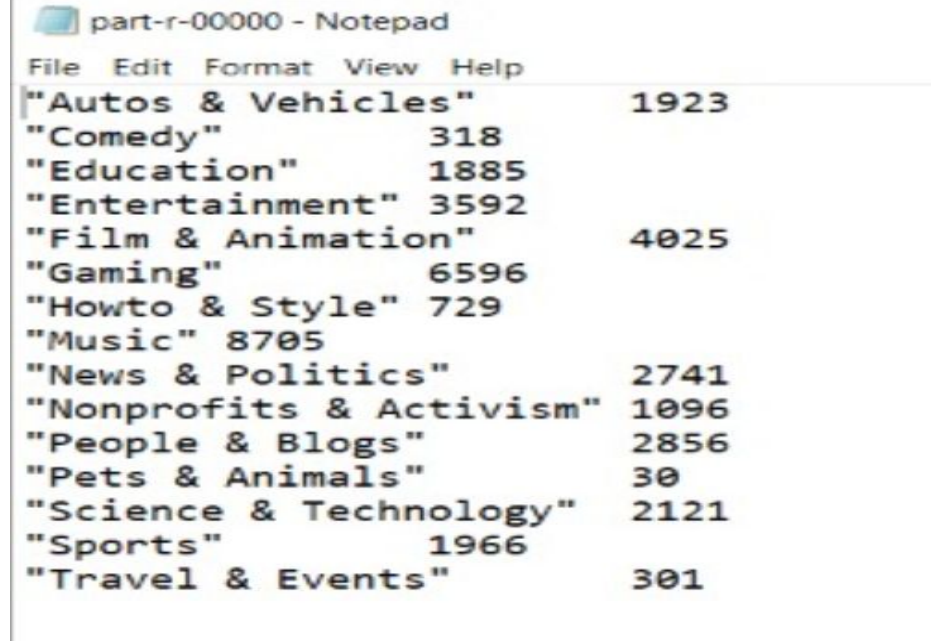




SYSTEM ARCHITECTURE

OUTPUT - MapReduce

1. CATEGORY



A screenshot of a Notepad window titled "part-r-00000 - Notepad". The window displays a list of categories and their corresponding counts, formatted as a table. The categories are listed on the left, and the counts are on the right. The categories are: "Autos & Vehicles", "Comedy", "Education", "Entertainment", "Film & Animation", "Gaming", "Howto & Style", "Music", "News & Politics", "Nonprofits & Activism", "People & Blogs", "Pets & Animals", "Science & Technology", "Sports", and "Travel & Events".

"Autos & Vehicles"	1923
"Comedy"	318
"Education"	1885
"Entertainment"	3592
"Film & Animation"	4025
"Gaming"	6596
"Howto & Style"	729
"Music"	8705
"News & Politics"	2741
"Nonprofits & Activism"	1096
"People & Blogs"	2856
"Pets & Animals"	30
"Science & Technology"	2121
"Sports"	1966
"Travel & Events"	301

2. UPLOADERS

```
part-r-00000 (3) - Notepad
File Edit Format View Help

"UC-2Y8dQb0S6DtpxNgAKoJKA" 18
"UC-BaA0SD5-4acdXWIDRoUg" 78
"UC-CSyyi47VX1ID9zyeABW3w" 29
"UC-XWpctw55Q6b_AHo8rkJgw" 54
"UC_-_S6J5Zkq-MtppuOJoNvw" 21
"UC0076UMUgEng8HORUw_MYHA" 124
"UC07-dOwgzaIIguKA86jgxNA" 16
"UCODM_mHV2u6dj8ig516kQwg" 54
"UCOVDwAbAdmIPcpVc3rwiYbQ" 25
"UC0qrcKuayvbMtPj-WXNfYIA" 18
"UCOyw39DOcCOwyUj2uY8vbuA" 8
"UC11JFCosIUUMTuAsUPH8RdQ" 8
"UC1BdpFCsvKmqzeThZ09M6A" 14
"UC1L2JoMpcY6MRLhFd3gg5Xg" 16
"UC1XW5EjnmkWA6Oic8FVncPQ" 17
"UC1mDL6TXcTnZpI61wWLqSsQ" 25
"UC1oPBuWifc0QOOY8DEKHLuQ" 133
"UC1pfsmDBnMQB8sOuQvmTvRQ" 11
"UC24_Z2L-8Ki183AI9zJJzNQ" 40
"UC2D0dmlHKbIe9aACnlcTLPg" 60
"UC26uoutVyegg6PUK88Lpjw" 15
"UC2L4gT_zPTgzCkBD6di7eNg" 19
```

3. VIEWS

```
part-r-00000 (2) - Notepad
File Edit Format View Help

"PRODUCE 101 JAPAN ㅍFIRE ( of BTS ) KAN/ROM/ENG Color Coded Lyrics" 12164
"!क़ोरोना से ज़ंग संगीत सुरों के संग!! देखिए बॉलीवुड सिंगर सतीश देहरा के साथ!!Non Stop Bhjan" 271
"#1 76ERS at #5 HAWKS | FULL GAME HIGHLIGHTS | June 11 2021"625893
"#1 76ERS at #8 WIZARDS | FULL GAME HIGHLIGHTS | May 29 2021" 736399
"#1 76ERS at #8 WIZARDS | FULL GAME HIGHLIGHTS | May 31 2021" 993371
"#1 JAZZ at #8 GRIZZLIES | FULL GAME HIGHLIGHTS | May 29 2021" 983637
"#1 JAZZ at #8 GRIZZLIES | FULL GAME HIGHLIGHTS | May 31 2021" 1045944
"#10【戦場5】弟者兄者のPS5で「バトルフィールドV (BFV)」【2BRO.】" 174218
"#11【爆撃機】弟者兄者おついちのPS5で「バトルフィールドV (BFV)」【2BRO.】" 340360
"#12【オプション設定パート2】弟者のPS5で「バトルフィールドV (BFV)」【2BRO.】" 201334
"#13【M3 Infrared】弟者兄者おついちのPS5で「バトルフィールドV (BFV)」【2BRO.】" 411501
"#14【対空】弟者兄者おついちのPS5で「バトルフィールドV (BFV)」【2BRO.】" 208254
"#15【ドッグファイト】弟者のPS5で「バトルフィールドV (BFV)」【2BRO.】" 180280
"#1【フリープレイ】弟者おついちの「バトルフィールドV (BFV)」【2BRO.】" 717040
"#2 NETS at #3 BUCKS | FULL GAME HIGHLIGHTS | June 10 2021" 1640358
"#2 NETS at #7 CELTICS | FULL GAME HIGHLIGHTS | May 28 2021" 1448234
"#2 NETS at #7 CELTICS | FULL GAME HIGHLIGHTS | May 30 2021" 1493946
"#2 SUNS at #3 NUGGETS | FULL GAME HIGHLIGHTS | June 11 2021" 444726
"#2 SUNS at #7 LAKERS | FULL GAME HIGHLIGHTS | June 3 2021" 1453837
"#2 SUNS at #7 LAKERS | FULL GAME HIGHLIGHTS | May 27 2021" 2086307
"#2 SUNS at #7 LAKERS | FULL GAME HIGHLIGHTS | May 30 2021" 1911898
"#2【PS Plusフリープレイ】弟者のPS5で「バトルフィールドV (BFV)」【2BRO.】" 442327
```

OUTPUT - CASSANDRA

TABLE CREATION AND IMPORT OF DATASET

```
Administrator: Command Prompt - cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing. Install to enable tab completion.
cqlsh> use trial
... ;
cqlsh:trial> CREATE TABLE trial.trial_name (
... title text,
... videoId text PRIMARY KEY,
... categoryId int,
... category text,
... duration text,
... viewCount bigint,
... commentCount bigint
... ,channelId text,
... likeCount bigint,
... dislikeCount bigint,
... language text,
... publishedAt text);
cqlsh:trial> COPY trial (title,videoId,categoryId,category,duration,viewCount,commentCount,channelId,likeCount,dislikeCount,language,publishedAt) FROM 'C:\Users\gupta\Downloads\data.csv' WITH HEADER=true;
Column family 'trial' not found
cqlsh:trial> COPY trial.trial_name (title,videoId,categoryId,category,duration,viewCount,commentCount,channelId,likeCount,dislikeCount,language,publishedAt) FROM 'C:\Users\gupta\Downloads\data.csv' WITH HEADER=true;
Using 7 child processes
```



```
Administrator Command Prompt - cqlsh
```

```
AttributeError: 'NoneType' object has no attribute 'add_timer'
```

```
A ttributeError: 'NoneType' object has no attribute 'add_timer'
```

```
    cls_loop.add_timer(timer)
```

```
AttributeError: 'NoneType' object has no attribute 'add_timer'
```

```
Processed: 22527 rows; Rate:      3551 rows/s; Avg. rate:   3511 rows/s
```

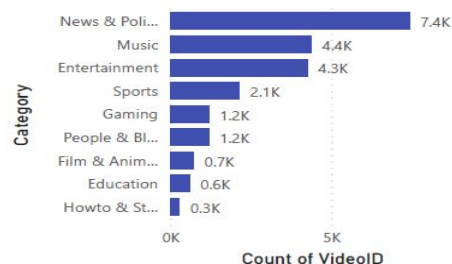
```
22527 rows imported from 1 files in 6.417 seconds (0 skipped).
```

```
cqlsh:trial> select * from trial.trial_name;
```

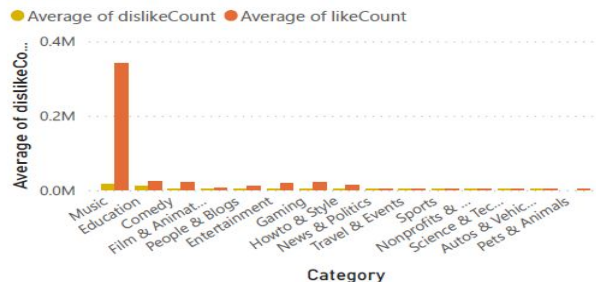
videoid	category	categoryid	channelid	commentcount	dislikecount	duration	language	likecount	publishedat	title
					viewcount					
4sRefGQPxxKQ	News & Politics	25	UC4oQAvXFullKiVjYUnQKTA	63	16	PT3M52S	es-419	73	2021-05-12T20:45:15Z	Duque viajará nuevamente a Cali para reunirse con los j venes Semana Noticias
WkQBtOtdwU4	News & Politics	25	UCdKykQK59FYz3JO2F10Z6sg	36	2	PT47S	null	214	2021-05-25T16:00:12Z	High School Runner With Cancer Crosses Finish Line With Teammates
ujP9ZXGLwQM	Music	10	UCGcsRTfVTxTF180uKdOT4A	1441	848	PT3M31S	null	22061	2017-11-04T03:00:02Z	Chanol - Para Vos
h75JpMHJnJ8	Music	10	UCYXiViXPAAAAU_AOotpxXTAw	0	23	PT3M16S	null	1196	2021-06-04T04:06:57Z	Still Hood
XDgQR949Zn0	News & Politics	25	UC5wkPlWxAZBZrunIs3mzwEw	9	0	PT1M28S	null	41	2021-05-27T02:10:58Z	ayúdanos a mejorar la calidad de la información que recibimos en el canal de noticias de la ciudad de Bogotá
eYgg6Fhbem0	News & Politics	25	UCwqusr8YDwM-3mEYTDeJHwz	44	null	PT48S	en	null	2021-06-12T03:13:14Z	Tela
ngana: Congress Stages Bizarre Protest Over Fuel Prices Throws Bike In Hussain Sagar Lake	News & Politics	25	UCeJWZgSMlqyEDytDnvzHnw	0	null	PT2M26S	en	null	2021-05-26T09:23:14Z	Cyc
-GwpTjZysjo	News & Politics	25	UCeJWZgSMlqyEDytDnvzHnw	0	null	PT2M26S	en	null	2021-05-26T09:23:14Z	Cyc
lone Tauktæ : Heavy losses to Lemon and Custard apple farmers of Virpur Rajkot TV9News	News & Politics	25	UCvrvvNSL3xcWGSkv86REBSg	7228764	230291	PT3M3S	ko	17077364	2021-05-21T03:46:13Z	
WmwEpGlu_U	Music	10	UCvrvvNSL3xcWGSkv86REBSg	7228764	230291	PT3M3S	ko	17077364	2021-05-21T03:46:13Z	
qhA5ypvv3g	Entertainment	24	UCtBu8wb2UodULXJS9Uss7Q	5	31	PT16M16S	null	838	2021-05-30T15:00:19Z	BTS (6-åðãðãðãðãð) Butter Official MV 341473822
AidGU17rUE	Entertainment	24	UC7VRpYRMzpudUE0IwhaoPg	0	0	PT38M22S	null	1	2021-02-11T13:58:52Z	ayúdanos a mejorar la calidad de la información que recibimos en el canal de noticias de la ciudad de Bogotá
qJWS3faAlgk	Music	10	UCvrvvNSL3xcWGSkv86REBSg	1748	358	PT4M18S	en	81318	2017-11-30T23:10:26Z	
nYeOnWvvrrg	Gaming	20	UCIdFoP9qNLR0Z6jVLfx9yhW	8081	159	PT12M17S	null	13858	2021-03-16T08:15:17Z	
AJnMIOoprvi	News & Politics	25	UCwqusr8YDwM-3mEYTDeJHwz	37	null	PT14M29S	en	null	2021-06-12T08:35:43Z	
BJPps Sambit Patra Slams Digvijaya Singh On Clubhouse Row; Calls It A Part Of Toolkit	News & Politics	25	UC5wkPlWxAZBZrunIs3mzwEw	36	31	PT14M47S	null	512	2021-05-14T00:16:42Z	
QaccGzslNaU	Music	10	UCvrvvNSL3xcWGSkv86REBSg	1748	358	PT4M18S	en	81318	2017-11-30T23:10:26Z	
ayúdanos a mejorar la calidad de la información que recibimos en el canal de noticias de la ciudad de Bogotá	News & Politics	25	UCwqusr8YDwM-3mEYTDeJHwz	37	null	PT14M29S	en	null	2021-06-12T08:35:43Z	
ZnOCQ7k-ZgI	Music	10	UCzCedBCSSlt11TFd3bkYN6g	21657	1025	PT27S	null	309110	2021-06-05T15:00:26Z	
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7l7msh3xbWbM	News & Politics	25	UC4oQAvXFullKiVjYUnQKTA	18	42	PT45M6S	es-419	56	2021-05-30T23:52:27Z	Juanes presenta su nuevo álbum y se refiere a la crisis en Colombia Semana Noticias

VISUALIZATION

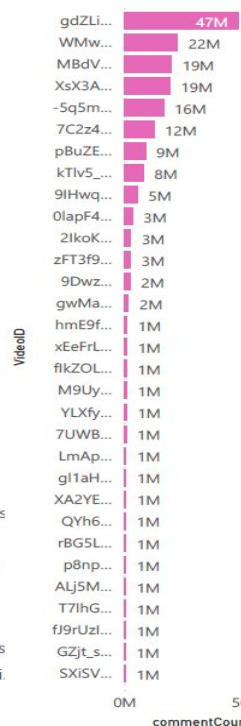
Count of VideoID by Category



Average of dislikeCount and Average of likeCount by Category



commentCount by VideoID



VideoID	viewCount
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cPAbx5kgCJo	1826818238
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fj9rUzlMcZQ	1336263107
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eNLjdPI9zdE	1231721221
tbneQDc2H3l	1201792742
bnVUHWcynig	1167034373
gFzfwWZV074	1165243768
L8eRzOYhLuw	1101248717
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DUT5rEU6ppM	943716007
4fndeDfaWCg	938561686
If_wVfwfpf8	934791272
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79DijltQXMM	876150401
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1L7V...	870446058
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Category

- ☐ Autos & Vehicles
- ☐ Comedy
- ☐ Education
- ☐ Entertainment
- ☐ Film & Animation

140bn
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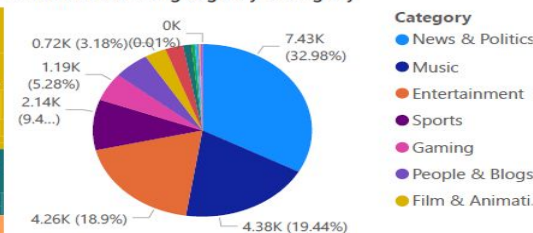
2bn
likeCount

226M
commentCount

Duration by Category and VideoID



Count of defLanguage by Category



Thank you!

GROUP 3