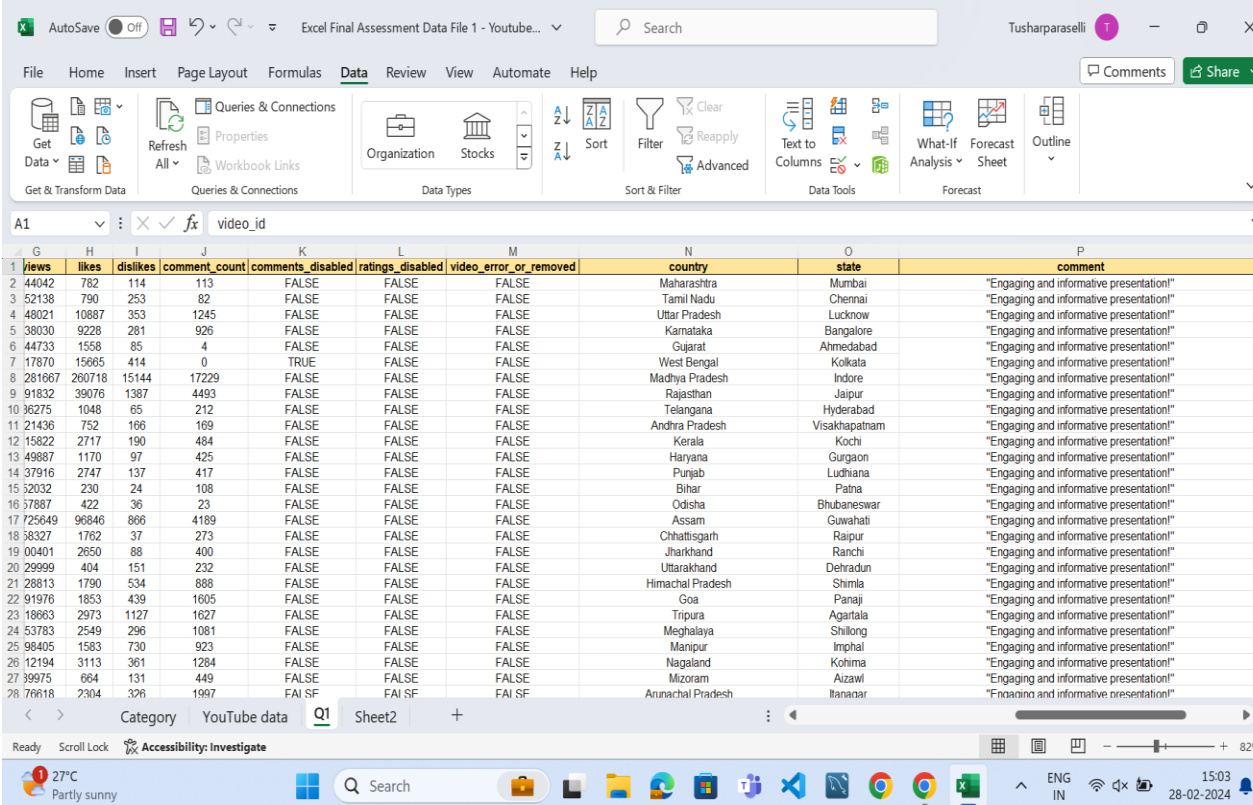


Excel Final exam

Tushar

Task-1

- Copied data to Q1 sheet and removed duplicates by selecting the remove duplicates option in data tab.
- The remaining null values were filled in reference to the previous cell by selecting go-to and adding the values.



The screenshot displays the Microsoft Excel interface with the 'Data' tab selected. The data is organized in a table with the following columns: views, likes, dislikes, comment_count, comments_disabled, ratings_disabled, video_error_or_removed, country, state, and comment. The data rows show various video entries with their respective metrics and locations across India. The bottom of the screen shows the Windows taskbar with the date 28-02-2024 and time 15:03.

	G	H	I	J	K	L	M	N	O	P
1	views	likes	dislikes	comment_count	comments_disabled	ratings_disabled	video_error_or_removed	country	state	comment
2	44042	782	114	113	FALSE	FALSE	FALSE	Maharashtra	Mumbai	"Engaging and informative presentation!"
3	52138	790	253	82	FALSE	FALSE	FALSE	Tamil Nadu	Chennai	"Engaging and informative presentation!"
4	48021	10887	353	1245	FALSE	FALSE	FALSE	Uttar Pradesh	Lucknow	"Engaging and informative presentation!"
5	38030	9228	281	926	FALSE	FALSE	FALSE	Karnataka	Bangalore	"Engaging and informative presentation!"
6	44733	1558	85	4	FALSE	FALSE	FALSE	Gujarat	Ahmedabad	"Engaging and informative presentation!"
7	17870	15665	414	0	TRUE	FALSE	FALSE	West Bengal	Kolkata	"Engaging and informative presentation!"
8	281687	260718	15144	17229	FALSE	FALSE	FALSE	Madhya Pradesh	Indore	"Engaging and informative presentation!"
9	91832	39076	1387	4493	FALSE	FALSE	FALSE	Rajasthan	Jaipur	"Engaging and informative presentation!"
10	36275	1048	65	212	FALSE	FALSE	FALSE	Telangana	Hyderabad	"Engaging and informative presentation!"
11	21436	752	186	169	FALSE	FALSE	FALSE	Andhra Pradesh	Visakhapatnam	"Engaging and informative presentation!"
12	15822	2717	190	484	FALSE	FALSE	FALSE	Kerala	Kochi	"Engaging and informative presentation!"
13	49887	1170	97	425	FALSE	FALSE	FALSE	Haryana	Gurgaon	"Engaging and informative presentation!"
14	37916	2747	137	417	FALSE	FALSE	FALSE	Punjab	Ludhiana	"Engaging and informative presentation!"
15	32032	230	24	108	FALSE	FALSE	FALSE	Bihar	Patna	"Engaging and informative presentation!"
16	37887	422	36	23	FALSE	FALSE	FALSE	Odisha	Bhubaneswar	"Engaging and informative presentation!"
17	725649	96846	866	4189	FALSE	FALSE	FALSE	Assam	Guwahati	"Engaging and informative presentation!"
18	58327	1762	37	273	FALSE	FALSE	FALSE	Chhattisgarh	Raipur	"Engaging and informative presentation!"
19	00401	2650	88	400	FALSE	FALSE	FALSE	Jharkhand	Ranchi	"Engaging and informative presentation!"
20	29999	404	151	232	FALSE	FALSE	FALSE	Uttarakhand	Dehradun	"Engaging and informative presentation!"
21	28813	1790	534	888	FALSE	FALSE	FALSE	Himachal Pradesh	Shimla	"Engaging and informative presentation!"
22	91976	1853	439	1605	FALSE	FALSE	FALSE	Goa	Panaji	"Engaging and informative presentation!"
23	18663	2973	1127	1627	FALSE	FALSE	FALSE	Tripura	Agartala	"Engaging and informative presentation!"
24	53783	2549	296	1081	FALSE	FALSE	FALSE	Meghalaya	Shillong	"Engaging and informative presentation!"
25	98405	1583	730	923	FALSE	FALSE	FALSE	Manipur	Imphal	"Engaging and informative presentation!"
26	12194	3113	361	1284	FALSE	FALSE	FALSE	Nagaland	Kohima	"Engaging and informative presentation!"
27	39975	664	131	449	FALSE	FALSE	FALSE	Mizoram	Aizawl	"Engaging and informative presentation!"
28	76618	2304	326	1997	FALSE	FALSE	FALSE	Arunachal Pradesh	Itanagar	"Engaging and informative presentation!"

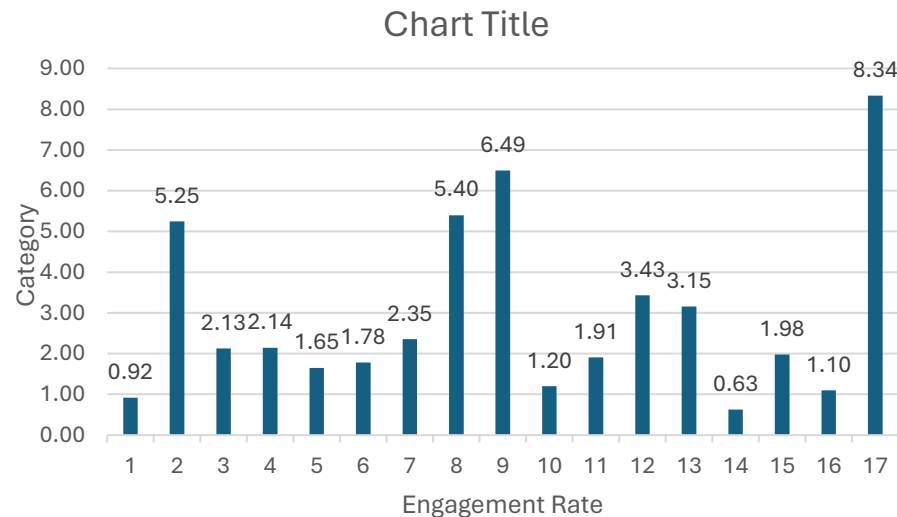
Task-2

- Took both publish date and trending date to Q2 sheet
- Use days function to extract number of days between the two dates
- Find average using average function
- Days(end date,start date)
- Average(range)

	A	B	C	D	E	F
1	publish_date	trending_date	Trend time			
2	3-5-2018	2018-03-06	1			
3	12-5-2017	2017-12-09	4	Average Trending time is	2.298154	
4	5-11-2018	2018-05-13	2			
5	5-26-2018	2018-05-29	3			
6	12-13-2017	2017-12-16	3			
7	5-12-2018	2018-05-13	1			
8	4-10-2018	2018-04-16	6			
9	3-1-2018	2018-03-02	1			
10	1-22-2018	2018-01-24	2			
11	3-12-2018	2018-03-15	3			
12	3-29-2018	2018-03-30	1			
13	11-25-2017	2017-11-26	1			
14	4-12-2018	2018-04-15	3			
15	4-1-2018	2018-04-02	1			
16	12-11-2017	2017-12-12	1			
17	2-11-2018	2018-02-10	5			

Task 3

- Use xlookup and get categories per id
- Copy likes,views,comments etc to Q3 sheet
- Find average views,likes and comments and then engagement rate
- Xlookup(lookup value, lookup array, return array,if not found, match mode)



Task-4

- Using filter and xlookup we found the category and the videos id of the particular channel
- Xlookup(lookup value, lookup array, return array,if not found, match mode)
- Filter(array,criteria,if not found)

Task-4

Channel Name	VARTHA PRANTHAN
Category	News & Politics

Videos	MoXAGG5WvyU
	MoXAGG5WvyU
	MoXAGG5WvyU
	MoXAGG5WvyU

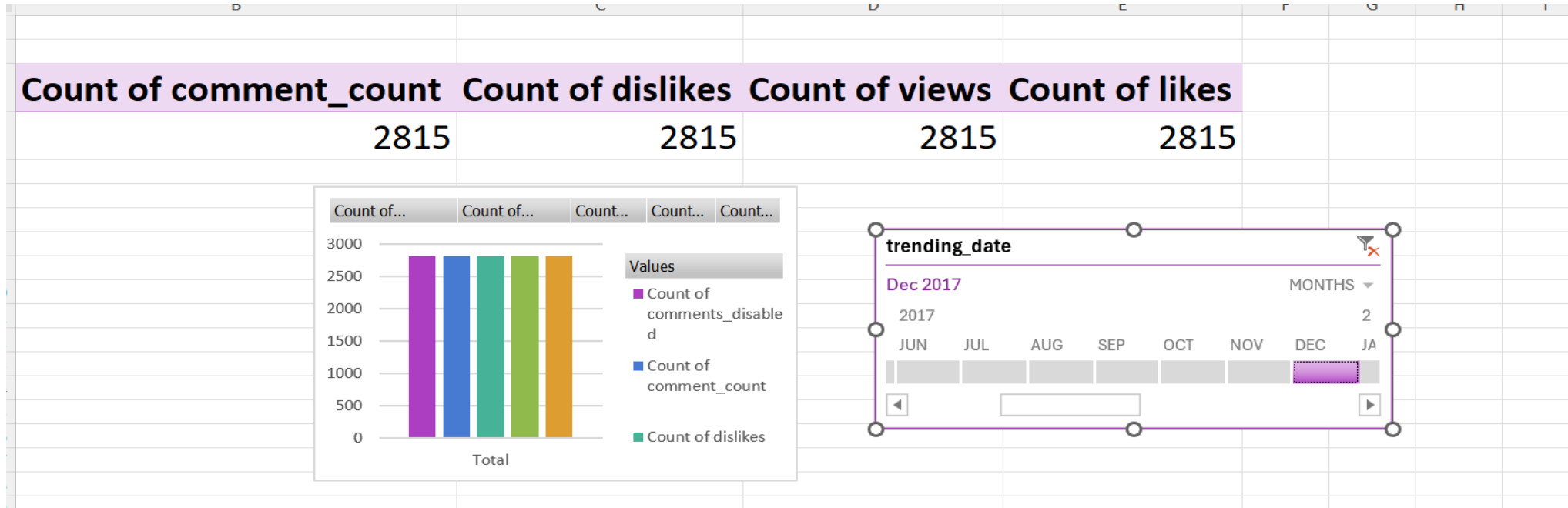
Task-5

- Copy comment count and comment disabled rows to new sheet Q5
- Count number of comments disabled and enabled
- Find the average of comments and find the average of comments wrt disabled and enabled

A	B	C	D	E
comment_count	comments_disabled		15715	
113	FALSE		592	
82	FALSE			
1245	FALSE			
926	FALSE		1481.797572	
4	FALSE			
0	TRUE	Average comments with respect to comments enabled	11.00488	
17229	FALSE			
4493	FALSE			
212	FALSE			
169	FALSE			
484	FALSE			
425	FALSE			
417	FALSE			
108	FALSE			
23	FALSE			
4189	FALSE			
273	FALSE			
400	FALSE			

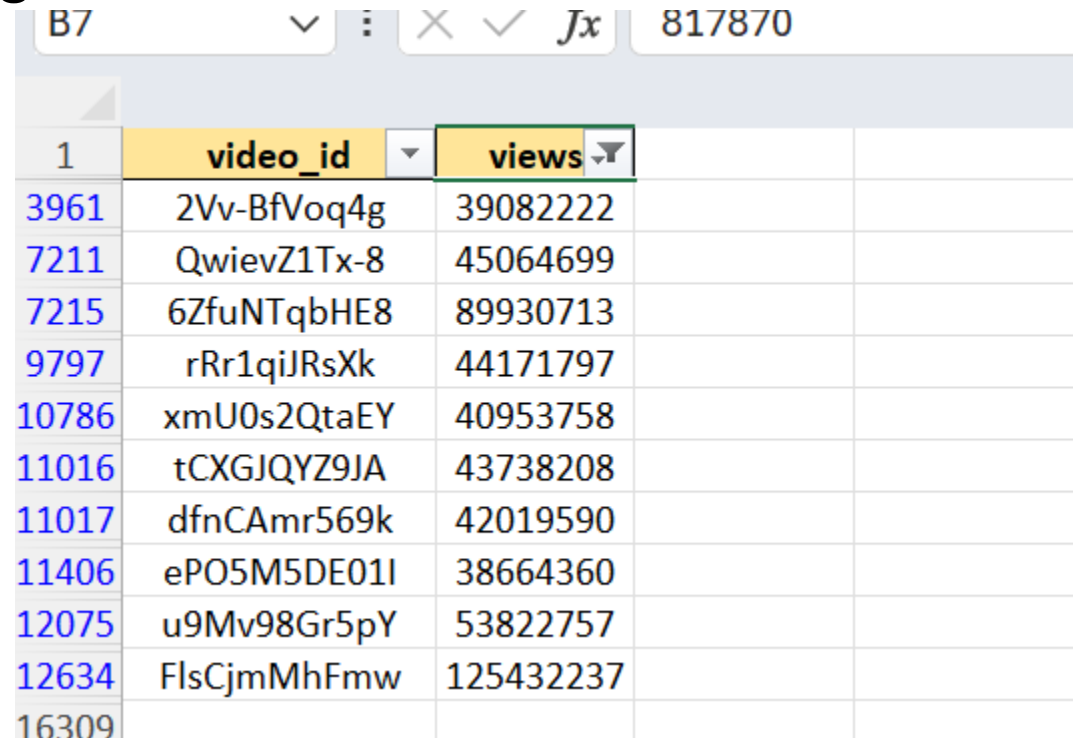
Task-6

- Create pivot table for views,likes,comments,dislikes



Task-8

- Create a new sheet add video columns and views columns
- Filter for top 10 videos



The screenshot shows a Google Sheet with a table containing video IDs and their view counts. The 'views' column is sorted in descending order, and the top 10 rows are highlighted in blue. The table has two columns: 'video_id' and 'views'.

	video_id	views
1	2Vv-BfVoq4g	39082222
3961	QwievZ1Tx-8	45064699
7211	6ZfuNTqbHE8	89930713
7215	rRr1qiJR5Xk	44171797
9797	xmU0s2QtaEY	40953758
10786	tCXGJQYZ9JA	43738208
11016	dfnCAmr569k	42019590
11017	ePO5M5DE01I	38664360
11406	u9Mv98Gr5pY	53822757
12075	FlsCjmMhFmw	125432237
12634		
16309		

Task-9

	A	B	C
1	video_id ▾	views ▾	publish_date ▾
2	FlsCjmMhFmw	125432237	12-6-2017
3	6ZfuNTqbHE8	89930713	11-29-2017
4	u9Mv98Gr5pY	53822757	4-24-2018
5	QwievZ1Tx-8	45064699	3-16-2018
6	rRr1qiJRsk	44171797	4-24-2018
7	tCXGJQYZ9JA	43738208	3-12-2018
8	dfnCAmr569k	42019590	1-12-2018
9	xmU0s2QtaEY	40953758	11-21-2017
10	2Vv-BfVoq4g	39082222	11-9-2017
11	ePO5M5DE01I	38664360	11-7-2017
12	vn9mMeWcgoM	36971093	12-8-2017
13	F2IN25IayH8	36957773	2-21-2018
14	1J76wN0TPI4	36224215	5-30-2018
15	zMxIW7uwDGg	35702242	11-19-2017
16	lkfpqGWzHCE	35276532	3-7-2018
17	xWi8nDUjHGA	34631260	12-26-2017
18	dUaCEs3HfdI	30340611	4-12-2018
19	ZJDMWVZta3M	29964922	11-18-2017
20	q2glCJFG6uw	29503026	3-19-2018
21	xBht9TG7vSw	29437104	5-15-2018

Task-10

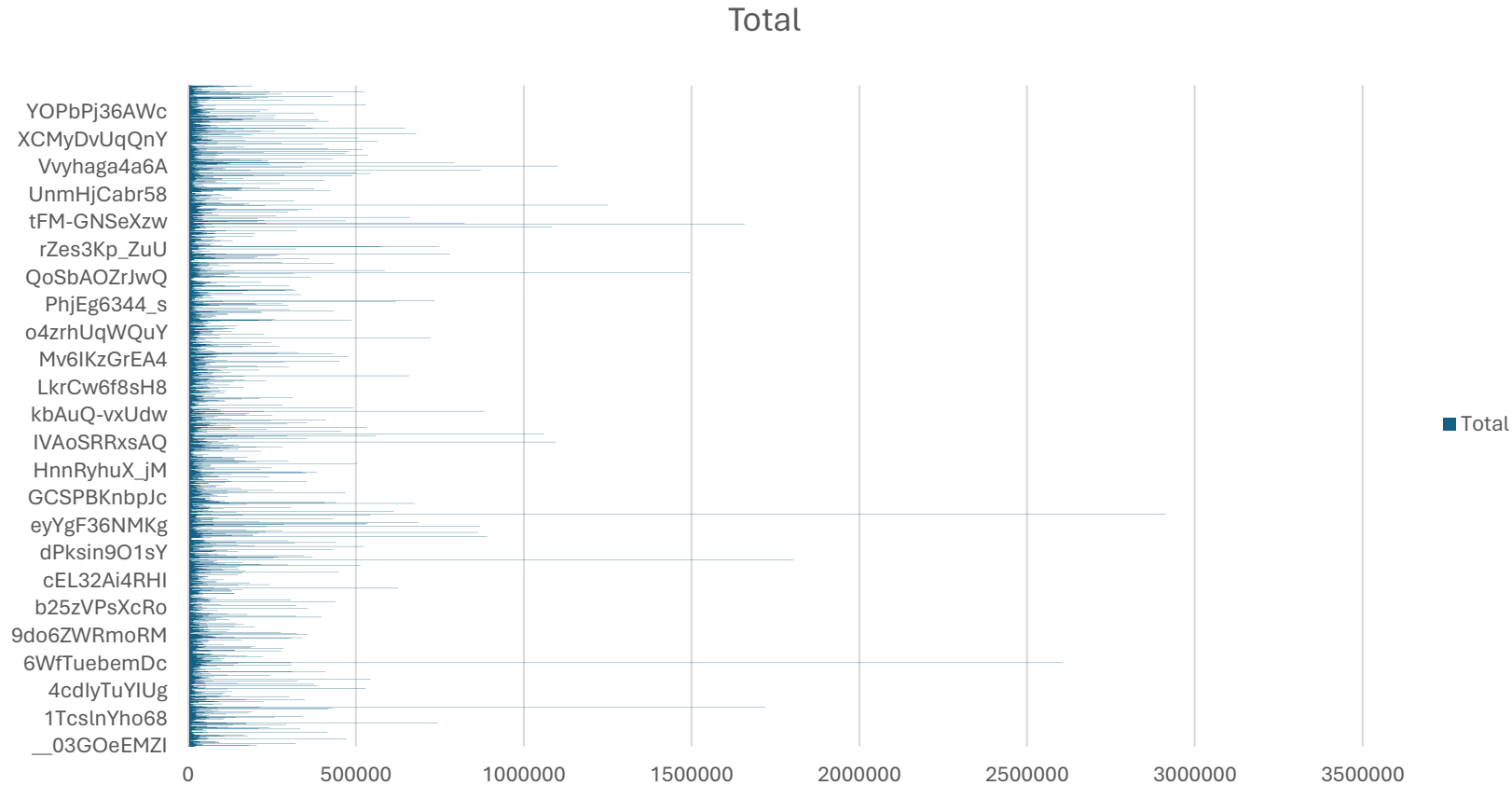
	A	B	C	D	E	F	G
1	views	publish_date			like: ↓		
2	125432237	12-6-2017	2017	2017	2912710		
3	89930713	11-29-2017	2017	2017	2606663		
4	42019590	1-12-2018	2018	2018	1804377		
5	39082222	11-9-2017	2017	2017	1721384		
6	43738208	3-12-2018	2018	2018	1658756		
7	45064699	3-16-2018	2018	2018	1494997		
8	53822757	4-24-2018	2018	2018	1250535		
9	19687255	6-5-2018	2018	2018	1101522		
10	23543061	4-27-2018	2018	2018	1095526		
11	7769007	4-9-2018	2018	2018	1084173		
12	22769424	4-12-2018	2018	2018	1059309		
13	17446067	12-15-2017	2017	2017	891115		
14	11767339	12-10-2017	2017	2017	882821		
15	20761480	1-22-2018	2018	2018	871933		
16	15718041	3-25-2018	2018	2018	870566		
17	38664360	11-7-2017	2017	2017	865914		
18	12179587	1-8-2018	2018	2018	822766		
19	13241801	12-7-2017	2017	2017	793330		
20	44171797	4-24-2018	2018	2018	780895		

Task-13

category	comment_count				
News & Politics	113		category		
News & Politics	82		News & Politics	2494	
News & Politics	1245		Music	1213	
News & Politics	926		People & Blogs	1230	
Music	4		Education	797	
News & Politics	0		Entertainment	7543	
News & Politics	17229		Science & Technolog	300	
People & Blogs	4493		Comedy	1110	
Education	212		Film & Animation	522	
Education	169		Sports	346	
Entertainment	484		Howto & Style	478	
Entertainment	425		Autos & Vehicles	34	
Entertainment	417		Religious	69	
Science & Technology	108		Gaming	20	
People & Blogs	23		Shows	121	
People & Blogs	4189		Travel & Events	4	
People & Blogs	273		Movies	2	
People & Blogs	400		Pets & Animals	1	
Science & Technology	232		0		
Science & Technology	888		0		
Science & Technology	1605				

Task-16

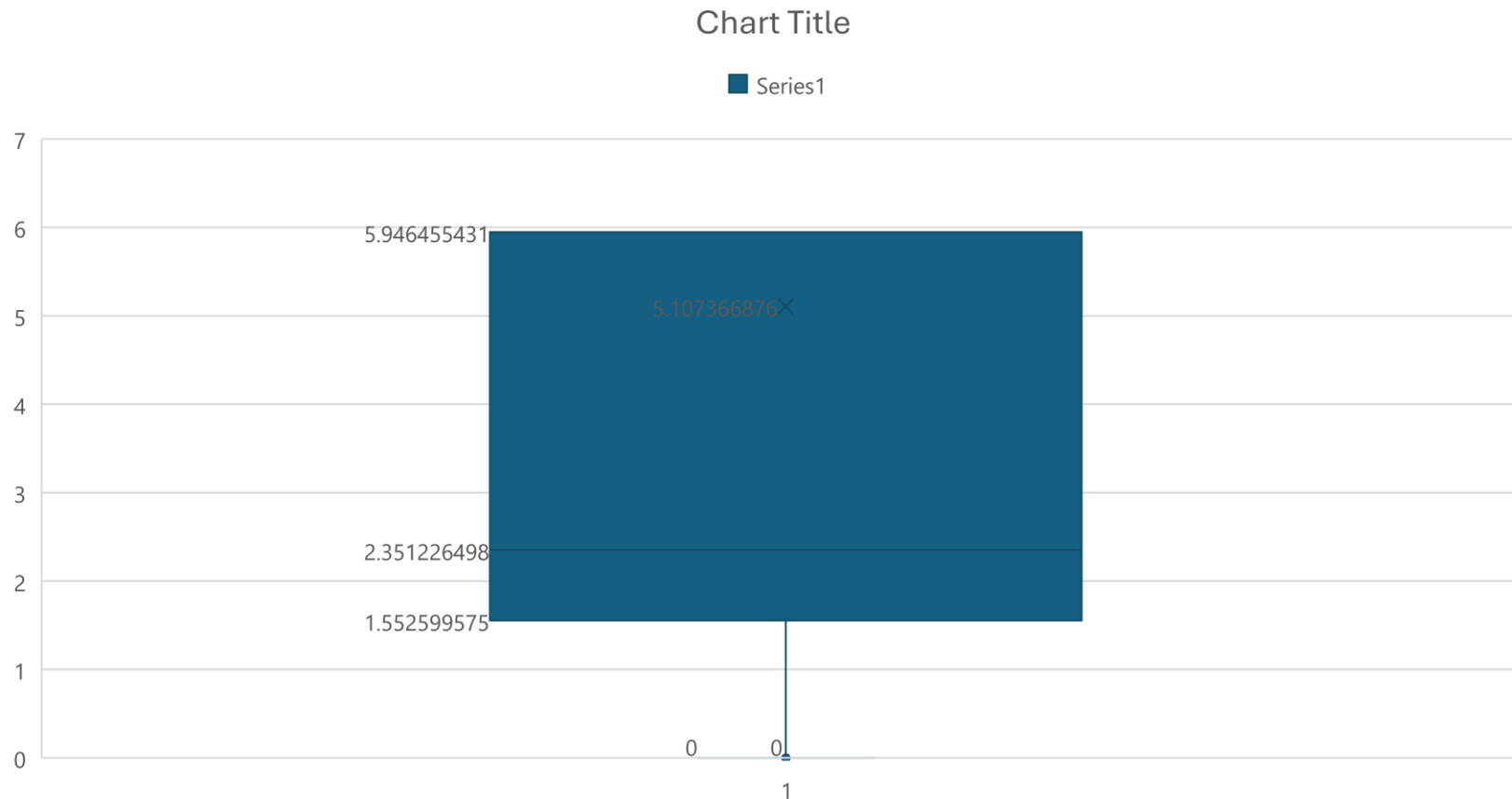
Plotted a bar chart for the view count based on the region



Based on the bar chart it can be observed that Vijaywada and Agartala get the most number of views

Task-17

- Plotted a Box chart for the engagement rate
- Based on the plot it can be observed that categories like entertainment and Film and animation are the outliers



Task-18

Trend analysis is done using the line chart for the specific videos by like and dislikes

