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Assignments

Brief for Assignment 1, 2, & 3:

We need to understand the distribution of duration of trending videos. The videos can trend on multiple days. The popular videos such as new songs, trailer trend longer compared to one of the viral videos. Hence it is important to understand the distribution of duration of videos trending by their respective category. We will need to run a few sql queries to analyze the distribution.

Assignment 1

1/1 point (graded)

Create a report for overall distribution of duration of trending videos by each country. The report will have video_id, video name (title), country, No_of_days_trended. Sample report:

video_id	title	country	no_of_days_trended
zzVFyVNgtsC	Our World in 2018: DISTURBING VIDEO!	Canada	2
ZzStPviPY90	Chris Chan: A Comprehensive History - Part 10	Great Britain	13
ZzStPviPY90	Chris Chan: A Comprehensive History - Part 10	Canada	1
ZZoF-ZHERTY	Trump orders strike on Syria	Canada	1
zZb4egM02RI	6. April 2018 - Bundespressekonzferenz - RegPK	Denmark	1
zZ9cPmJ_v4w	BYN : Under 25	India	9

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: How many videos have trended for more than 5 days in the US?



Submit

Assignment 2

1/1 point (graded)

Create a report for overall distribution of duration of trending videos by each category. The report will have video_id, category title, No_of_days_trended.

Sample report:

video_id	title	snippettitle	no_of_days_trended
zzVFyVNgtsc	Our World in 2018: DISTURBING VIDEO!	News & Politics	2
ZzStPviPY90	Chris Chan: A Comprehensive History - Part 10	Entertainment	14
ZZoF-ZHERTY	Trump orders strike on Syria	News & Politics	1
zzb4egM02RI	6. April 2018 - Bundespressekonzferenz - RegPK	News & Politics	1
zZ9cPmJ_v4w	BYN : Under 25	Comedy	9
ZZ6ZhLQJ9tk	SARAH - Genau hier (Official Video)	Music	2
zz2vrPorALM	Most Hilarious Tweets Of 2018	Entertainment	1
zY8BXo688Gc	#MasterChefGR - trailer 2018 - 1.5.2018	People & Blogs	1

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: Which category has the highest average trending period?

music



Submit

Assignment 3

1/1 point (graded)

Create a report for the number of distinct videos trending from each category on day of the week. The report will have weekday, category title, No_videos_trended. Sample report:

day	snippetttitle	no_of_videos
Monday	Autos & Vehicles	17
Tuesday	Autos & Vehicles	14
Wednesday	Autos & Vehicles	15
Thursday	Autos & Vehicles	23
Friday	Autos & Vehicles	22

Note: The answer cannot be derived from the report. In the report, we have a number of videos trending for each weekday by category. Hence, if a video has trended on multiple days, it will be counted on each day. The question asks for distinct videos and hence write the query considering that.

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: How many distinct videos trended from the category 'Music' on weekdays (Monday - Friday)?



Brief for Assignment 4 & 5:

Normally it is believed if the video trends for more number of days, then the video views, likes and comments also is higher. We need to check whether this is true for all the videos.

Assignment 4

1/1 point (graded)

Create a summary report which contains country, category title, total_views, total_likes and avg_trending_days. Sample report:

category_title	country	total_views	total_likes	avg_trending_days
Shows	India	21959060	145304	1.9667
Gaming	India	56277638	1343325	1.625
Comedy	India	428160553	31051443	1.3918
People & Blogs	India	111213514	2710943	1.3846
Sports	India	138007014	4390188	1.3714

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: What are the total views for category sports in 'Canada'?



Assignment 5

1/1 point (graded)

Rank the videos based on views, likes within each country. Which country has the highest number of videos with rank for views and rank of likes both in top 20?



Brief for Assignment 6 & 7:

We have determined that the Likes to dislikes ratio is a good indicator of popularity. We have to come up with a rating framework to the videos based on the available metrics, which would help us recommend videos better.

Assignment 6

1/1 point (graded)

Generate a report at video level with video viewership rating within the category. (Report at video level means the output should be unique at video_id).

Formula to assign the rating: $((\text{Views} - \min(\text{views})) * 100) / (\text{max}(\text{views}) - \min(\text{views}))$

where **max(views)** is maximum views in the respective video's category

and **min(views)** is minimum views in the respective video's category

Sample report:

video_id	title	category_title	views	max_views	min_views	rating
lZewQ-1uLjo	UNBOXING ONE-OF-A-KIND Shoes From NIKE!	Travel & Events	24091	1499298	3194	1
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	290559	1499298	3194	19
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	730162	1499298	3194	49
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	891878	1499298	3194	59
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	987852	1499298	3194	66
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	1062921	1499298	3194	71
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	1109397	1499298	3194	74
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai	Travel & Events	1160805	1499298	3194	77

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: What is the average rating of the category Music?



Assignment 7

1/1 point (graded)

Generate a report at video level with video ratings. (Report at video level means the output should be unique at video_id).

Rating formula to assign the rating: $((\text{Likes} - \min(\text{likes})) * 100) / (\text{max}(\text{likes}) - \min(\text{likes}))$

where **max(likes)** is maximum likes in the respective video's category

and **min(likes)** is minimum likes in the respective video's category

Sample report:

video_id	title	category_title	likes	max_likes	min_likes	rating
lZewQ-1uLjo	UNBOXING ONE-OF-A-KIND Shoes From NIKE!	Travel & Events	1205	22701	52	5
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	9156	22701	52	40
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	15027	22701	52	66
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	16666	22701	52	73
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	17558	22701	52	77
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	18270	22701	52	80
kUosDBUjq5A	LUXURIOUS All You Can Eat BUFFET in Mumbai In	Travel & Events	18731	22701	52	82

Task: Save the report with assignment number in the Google work sheet as mentioned previously.

Question: Which category has the highest average rating based on likes?

Travel & Events



Submit