SQL Queries

1. **Which country has the most active users?**

**Getting the sum of the dates the videos got popular across different countries displays the country mapping to the no of trending videos across different countries. This mapping indirectly maps on how the users across different countries made the videos popular.**

SELECT C.COUNTRY\_NAME,SUM(C.CNT)as "NO.OF POPULAR VIDEOS" FROM (SELECT COUNTRY\_NAME, VIDEO\_ID, COUNT(DISTINCT TRENDING\_DT) CNT

FROM VIDEOS v join country c on v.country\_id = c.country\_id

GROUP BY COUNTRY\_NAME, VIDEO\_ID

ORDER BY CNT DESC)C GROUP BY COUNTRY\_NAME

1. Co-relation of trending videos in different countries vs the number of days the video has been trending

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common videos that are popular among all the countries are displayed and the user is asked to select one among those.

Five videos

select title, ct from

(SELECT TITLE, COUNT(DISTINCT COUNTRY\_NAME) CT

FROM VIDEOS v join country c on v.country\_id = c.country\_id

GROUP BY TITLE

HAVING COUNT(DISTINCT COUNTRY\_NAME) = 2

ORDER BY CT DESC ) subq

where rownum<6

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No of days the selected video was popular

SELECT

a.title, a.Country\_name ,COUNT(DISTINCT a.trending\_dt) CT

FROM

( SELECT v. title,v.trending\_dt,c.Country\_name

FROM VIDEOS v, COUNTRY c

WHERE v.COUNTRY\_ID = c.COUNTRY\_ID and v.title='J. Balvin - Ahora' ) a

GROUP BY a.title, a.country\_name

1. Which channel has largest trending videos with respect to different countries? Also, what kind of category of videos to put in order to attract the subscribers or viewers. (based on category ID)

A bar graph is displayed mapping the different channels (Netflix, ESPN, etc.,) with the number of popular videos associated with each channel

with channel\_country as

(

SELECT CR.COUNTRY\_NAME, C.CHANNEL\_TITLE ,COUNT(DISTINCT VIDEO\_ID) cnt ,

RANK() OVER(partition by country\_name ORDER BY COUNT(DISTINCT VIDEO\_ID) DESC) rnk

FROM VIDEOS V JOIN

CHANNELS C ON V.CHANNEL\_ID = C.CHANNEL\_ID JOIN

COUNTRY CR ON V.COUNTRY\_ID = CR.COUNTRY\_ID

GROUP BY COUNTRY\_NAME, C.CHANNEL\_TITLE

)

select COUNTRY\_NAME, CHANNEL\_TITLE, cnt, rnk

from channel\_country

where rnk < 6

AND COUNTRY\_NAME IN ('CANADA')

1. Which category (music, education, sports, news etc.,) is the most trending? Country-wise as well as world-wide?

World wide - no of videos count and catrgory name

SELECT CATEGORY\_NAME,COUNT(DISTINCT VIDEO\_ID) cnt FROM VIDEOS V JOIN

CATEGORY C ON V.CATEGORY\_ID = C.CATEGORY\_ID

GROUP BY CATEGORY\_NAME

ORDER BY cnt desc

 A bar graph is displayed mapping the different categories (Music, Sports, News etc.,) with the number of popular videos associated with each category.

Country wise - five top categories of selected countries

with category\_country as

(

SELECT COUNTRY\_NAME, CATEGORY\_NAME ,COUNT(DISTINCT VIDEO\_ID) cnt ,

RANK() OVER(partition by country\_name ORDER BY COUNT(DISTINCT VIDEO\_ID) DESC) rnk

FROM VIDEOS V JOIN

CATEGORY C ON V.CATEGORY\_ID = C.CATEGORY\_ID JOIN

COUNTRY CR ON V.COUNTRY\_ID = CR.COUNTRY\_ID

GROUP BY COUNTRY\_NAME, CATEGORY\_NAME

)

select COUNTRY\_NAME, CATEGORY\_NAME, cnt, rnk

from category\_country

where rnk < 6

AND COUNTRY\_NAME IN ('CANADA')

1. Analysis on the videos that are the most listed on the trending list based on categories.

5 popular videos for each category

SELECT CATEGORY\_NAME, TITLE, CNT AS DAYS\_POPULAR, RNK FROM

(

SELECT CATEGORY\_NAME, TITLE, COUNT(TRENDING\_DT) CNT,

RANK() OVER(partition by CATEGORY\_NAME ORDER BY COUNT(TRENDING\_DT) DESC) rnk

FROM VIDEOS v join CATEGORY c on v.CATEGORY\_ID = c.CATEGORY\_ID

GROUP BY CATEGORY\_NAME, TITLE

)

WHERE rnk <= 5

ORDER BY CATEGORY\_NAME, RNK ASC

1. How does the trending of videos corelate with likes and comments ratio?

LIKE-DISLIKE RATIO

select category\_name, round(avg((LIKE\_COUNT/DISLIKE\_COUNT)),2) as ratio

FROM VIDEOS v join category c on v.category\_id = c.category\_id

JOIN STATISTICS S ON S.STAT\_ID = V.STAT\_ID

where DISLIKE\_COUNT > 0

group by category\_name

order by ratio desc

LIKE-VIEW RATIO

select category\_name, ROUND(avg((LIKE\_COUNT/VIEW\_COUNT)),3) as ratio

FROM VIDEOS v join category c on v.category\_id = c.category\_id

JOIN STATISTICS S ON S.STAT\_ID = V.STAT\_ID

where VIEW\_COUNT > 0

group by category\_name

order by ratio desc

1. How many videos have been rendered controversial and removed after they became trending?

SELECT COUNTRY\_NAME,COUNT(DISTINCT TITLE)CNT FROM VIDEOS V JOIN COUNTRY C ON V.COUNTRY\_ID=C.COUNTRY\_ID JOIN STATISTICS S ON S.STAT\_ID=V.STAT\_ID WHERE S.VIDEO\_ERR\_REM='T'

GROUP BY COUNTRY\_NAME

1. How is trending of videos related to views and comments? (analysis of controversial videos)

VIEW-COMMENT rATIO

select category\_name, round(avg((VIEW\_COUNT/COMMENT\_COUNT)),2) as ratio

FROM VIDEOS v join category c on v.category\_id = c.category\_id

JOIN STATISTICS S ON S.STAT\_ID = V.STAT\_ID

where COMMENT\_COUNT > 0

group by category\_name

order by ratio desc

DISLIKE-VIEW RATIO

select category\_name, ROUND(avg((DISLIKE\_COUNT/VIEW\_COUNT)),3) as ratio

FROM VIDEOS v join category c on v.category\_id = c.category\_id

JOIN STATISTICS S ON S.STAT\_ID = V.STAT\_ID

where VIEW\_COUNT > 0

group by category\_name

order by ratio desc