

## Milestone 3: Answering Questions

CNIT 372

Group Members: Hunter King, Brian Kim, Samyak Lasod

1. What video has the highest like to view ratio?

**Answer=**

```
SELECT Title, ((LIKES / VIEWS)*100) AS LIKE_TO_VIEW_RATIO
FROM youtube
WHERE VIEWS > 0
ORDER BY LIKE_TO_VIEW_RATIO DESC
FETCH FIRST ROW ONLY;
```

TITLE	LIKE_TO_VIEW_RATIO
Bruno Mars - Finesse (Remix) [Feat. Cardi B] [Official Video]	29.046646

2. What video was most popular (had the most views) on November 15th?

**Answer=**

```
SELECT VIDEO_ID, TITLE, MAX(VIEWS) AS MAX_VIEWS
FROM youtube
WHERE TRENDING_DATE = '17.15.11' -- Use the correct date format as per your database
GROUP BY VIDEO_ID, TITLE
ORDER BY MAX_VIEWS DESC
FETCH FIRST ROW ONLY;
```

VIDEO_ID	TITLE	MAX_VIEWS
2Vv-BfVoq4g	Ed Sheeran - Perfect (Official Music Video)	39082222

3. What video from each genre has the highest views?

**Answer=**

```
WITH MaxViewsPerCategory AS (
    SELECT CATEGORY_ID, MAX(VIEWS) AS MAX_VIEWS
    FROM youtube
    GROUP BY CATEGORY_ID
)
SELECT t.VIDEO_ID, SUBSTR(t.TITLE, 1, 70) AS SHORT_TITLE, t.CATEGORY_ID,
t.VIEWS
FROM youtube t
JOIN MaxViewsPerCategory mv ON t.CATEGORY_ID = mv.CATEGORY_ID AND t.VIEWS
= mv.MAX_VIEWS;
```

VIDEO_ID	SHORT_TITLE	CATEGORY_ID	VIEWS
nWZMfPP34g8	BITTEN by a GIANT DESERT CENTIPEDE!	15	6187457
_9YMpuLDnwo	42 HOLY GRAIL HACKS THAT WILL SAVE YOU A FORTUNE	26	54155921
FlsCjwMhFmw	YouTube Rewind: The Shape of 2017   #YouTubeRewind	24	149376127
VRJmcxCrAOA	Real Life Trick Shots 2   Dude Perfect	17	29090799
oWjxSkJpxFU	Suicide: Be Here Tomorrow.	29	24286474
cqg5oc20nxk	Official Ram Trucks Super Bowl Commercial   Icelandic Vikings   We Will	2	25244097
BhIEIO0vaBE	To Our Daughter	22	56111957
yvicqMrAHvQ	Turkish Airlines - 5 Senses with Dr. Oz	19	23932421
c8W-augg024	We Sent Garlic Bread to the Edge of Space, Then Ate It	27	7349435
uVcvhKIVZ8g	Clash Royale: CLAN WARS IS HERE!	20	16935442
4kDklB6-69Q	Poo Bear ft. Justin Bieber & Jay Electronica - Hard 2 Face Reality (Ly	23	29178096
VIDEO_ID	SHORT_TITLE	CATEGORY_ID	VIEWS
7_FJUSBFbJM	Game of Zones - Game of Zones - S5:E1: 'A Golden Summer'	43	1445949
Kc6CIwBVo5s	Hawaiian lava flows â€˜faster than a turtleâ€™™	25	10277358
yDiXQ17grPQ	Do You Hear Yanny or Laurel? (SOLVED with SCIENCE)	28	42799458
u1NswX3If6U	Selena Gomez - Back To You (Lyric Video)	1	54863912
VYOjWnS4cMY	Childish Gambino - This Is America (Official Video)	10	225211923

4. What video has the highest ratio of dislikes to views?

**Answer=**

SELECT VIDEO\_ID,

substr(TITLE,1,50) as title,

(DISLIKES / NULLIF(VIEWS, 0)) AS DISLIKE\_TO\_VIEW\_RATIO

FROM youtube

ORDER BY DISLIKE\_TO\_VIEW\_RATIO DESC

FETCH FIRST ROW ONLY;

VIDEO_ID	TITLE	DISLIKE_TO_VIEW_RATIO
LFhT6H6pRWg	PSA from Chairman of the FCC Ajit Pai	.191531483

5. What video has the most views by its date?

**Answer=**

WITH MonthlyTopVideos AS (

SELECT

EXTRACT(YEAR FROM TO\_DATE(TRENDING\_DATE, 'YY-DD-MM')) AS YEAR,

```
EXTRACT(MONTH FROM TO_DATE(TRENDING_DATE, 'YY-DD-MM')) AS MONTH,
VIDEO_ID,
TITLE,
VIEWS,
ROW_NUMBER() OVER (
    PARTITION BY EXTRACT(YEAR FROM TO_DATE(TRENDING_DATE,
'YY-DD-MM')),
        EXTRACT(MONTH FROM TO_DATE(TRENDING_DATE, 'YY-DD-MM'))
    ORDER BY VIEWS DESC
) AS RN
FROM
    youtube
)
SELECT
    YEAR,
    MONTH,
    VIDEO_ID,
    TITLE,
    VIEWS AS MAX_VIEWS
FROM
    MonthlyTopVideos
WHERE
    RN = 1
```

ORDER BY

YEAR,

MONTH;

YEAR	MONTH	VIDEO_ID	TITLE	MAX_VIEWS
2017	11	TyHvyGVs42U	Luis Fonsi, Demi Lovato - <i>Á%chame La Culpa</i>	102012605
2017	12	FlsCjmMhFmw	YouTube Rewind: <i>The Shape of 2017</i>   #YouTubeRewind	149376127
2018	1	LsoLEjrDogU	Bruno Mars - <i>Finesse (Remix)</i> [Feat. Cardi B] [Official Video]	57951412
2018	2	BhIEIO0vaBE	<i>To Our Daughter</i>	56111957
2018	3	#NAME?	Maluma - <i>El PrÃestamo</i> (Official Video)	87264467
2018	4	ffxKSjUwKdU	Ariana Grande - <i>No Tears Left To Cry</i>	74523616
2018	5	VYOjWnS4cMY	Childish Gambino - <i>This Is America</i> (Official Video)	217750076
2018	6	VYOjWnS4cMY	Childish Gambino - <i>This Is America</i> (Official Video)	225211923

8 rows selected.

6. What video has the highest likes?

**Answer=** SELECT VIDEO\_ID, substr(TITLE,1,50), LIKES

FROM youtube

ORDER BY LIKES DESC

FETCH FIRST ROW ONLY;

VIDEO_ID	SUBSTR(TITLE,1,50)	LIKES
7C2z4GqqS5E	BTS (ë"ëif,,itQë...,,ë<") 'FAKE LOVE' Official MV	5613827

7. What publish time has the most views?

**Answer=** SELECT

PUBLISH\_TIME,

SUM(VIEWS) AS TOTAL\_VIEWS

FROM

youtube

GROUP BY

PUBLISH\_TIME

ORDER BY

TOTAL\_VIEWS DESC

FETCH FIRST ROW ONLY;

PUBLISH_TIME	TOTAL_VIEWS
2018-05-06T04:00:07.000Z	3758488765

8. What is the video with the highest amount of dislikes and comments?

**Answer**=SELECT VIDEO\_ID, substr(TITLE,1,50) as title, DISLIKES, COMMENT\_count

FROM youtube

WHERE DISLIKES = (SELECT MAX(DISLIKES) FROM youtube)

AND COMMENT\_count = (SELECT MAX(COMMENT\_count) FROM youtube);

VIDEO_ID	TITLE	DISLIKES	COMMENT_COUNT
QwZT7T-TXT0	So Sorry.	1674420	1361580

9. What are the top five channels that have the highest views and likes?

**Answer**=SELECT substr(Channel\_TITLE,1,50) as Channel,

SUM(VIEWS) AS TOTAL\_VIEWS,

SUM(LIKES) AS TOTAL\_LIKES

FROM youtube

GROUP BY substr(Channel\_TITLE,1,50)

ORDER BY TOTAL\_VIEWS DESC, TOTAL\_LIKES DESC

FETCH FIRST 5 ROWS ONLY;

CHANNEL	TOTAL_VIEWS	TOTAL_LIKES
ChildishGambinoVEVO	3758488765	96700818
ibighit	2235906679	199247121
Dude Perfect	1870085178	60275557
Marvel Entertainment	1808998971	55873344
ArianaGrandeVevo	1576959172	52170970

10. What video has the highest views with comments disabled?

**Answer**=SELECT VIDEO\_ID, substr(TITLE,1,50) as title, VIEWS

FROM youtube

WHERE COMMENTS\_DISABLED like 'TRUE'

ORDER BY VIEWS DESC

FETCH FIRST ROW ONLY;

VIDEO_ID	TITLE	VIEWS
BhIEI00vaBE	To Our Daughter	56111957

We came up with the questions by brainstorming what the most important information a youtuber would need in order to thrive on the platform. We did this by analyzing the trending videos and querying information about them that could have led to them being trending.

**Brian Kim:**

**Hunter King:** Made the document, Got CSV ready for import, and answered questions.

**Samyak Lasod:**