

## Milestone 3: Answering Questions

CNIT 372

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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
FlsCjMhMfmw	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

**Brian Kim:**

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

**Samyak Lasod:**