

SQL PROJECT

- ✓ THIS PROJECT IS ABOUT YOUTUBE CHANNEL ANALYSIS OF ALEX THE ANALYST CHANNEL USING SQL
- ✓ THIS COMPLETE DATA SET HAS 9 COLUMNS AND TOTAL 81 ROWS
- ✓ AND THE FIELDS OR TERMS WHICH THIS DATASET HAS ARE AS FOLLOWS:
- ✓ ID,TITLE_NAME,PUBLISHING_DATE,VIEWS,COMMENTS,LIKES,MONTH,YEAR, YEARMONTH

QUESTIONS BASED ON DATASET

- HOW MANY SQL VIDEOS ARE THERE?
- WHICH VIDEO GOT THE MOST VIEWS?
- WHICH VIDEO GOT BEST LIKES TO VIEWS RATIO ?
- HOW MANY VIDEOS HE HAS POSTED IN EACH TYPE?
- IN WHICH MONTH HE POSTED HIGHEST NO OF VIDEOS?
- HOW MANY MONTHS HAVE MORE THAN ONE MILLION VIEWS?
- WHAT IS THE VIEWS CHANGE PERCENTAGE BY MONTH IN 2020?

❖ HOW MANY SQL VIDEOS ARE THERE?

- QUERY

```
1 • SELECT * FROM alexdata
2 WHERE title_name like "%SQL%";
```

- OUTPUT

| id | title_name | publishing_date | views | comments | likes | month | year | yearmonth |
|----|---|---------------------------|---------|----------|-------|-------|------|-----------|
| 25 | SQL Basics Tutorial For Beginners Installing SQL Server Management Studio and Create T... | 2020-03-01 00:50:38+00:00 | 592545 | 917 | 9404 | 3 | 2020 | Mar-20 |
| 26 | SQL Basics Tutorial For Beginners Select + From Statements 2/4 | 2020-03-01 17:02:28+00:00 | 181553 | 134 | 3260 | 3 | 2020 | Mar-20 |
| 27 | SQL Basics Tutorial For Beginners Where Statement 3/4 | 2020-03-02 16:01:01+00:00 | 123228 | 82 | 2685 | 3 | 2020 | Mar-20 |
| 28 | SQL Basics Tutorial For Beginners Group By + Order By Statements 4/4 | 2020-03-03 15:06:36+00:00 | 118313 | 167 | 3806 | 3 | 2020 | Mar-20 |
| 29 | Intermediate SQL Tutorial Inner/Outer Joins Use Cases | 2020-03-19 15:40:58+00:00 | 206171 | 257 | 4081 | 3 | 2020 | Mar-20 |
| 30 | Intermediate SQL Tutorial Unions Union Operator | 2020-03-26 16:51:37+00:00 | 101514 | 91 | 2380 | 3 | 2020 | Mar-20 |
| 31 | Intermediate SQL Tutorial Case Statement Use Cases | 2020-04-02 15:16:37+00:00 | 128613 | 256 | 3630 | 4 | 2020 | Apr-20 |
| 32 | Intermediate SQL Tutorial Having Clause | 2020-04-09 16:01:02+00:00 | 62137 | 48 | 2027 | 4 | 2020 | Apr-20 |
| 33 | Intermediate SQL Tutorial Updating/Deleting Data | 2020-04-16 12:58:52+00:00 | 51748 | 87 | 1475 | 4 | 2020 | Apr-20 |
| 34 | Intermediate SQL Tutorial Aliasing | 2020-06-04 14:00:10+00:00 | 51925 | 59 | 1731 | 6 | 2020 | Jun-20 |
| 35 | Intermediate SQL Tutorial Partition By | 2020-12-01 12:04:43+00:00 | 112025 | 145 | 3195 | 12 | 2020 | Dec-20 |
| 36 | Advanced SQL Tutorial CTE (Common Table Expression) | 2020-12-08 12:00:05+00:00 | 155481 | 129 | 2693 | 12 | 2020 | Dec-20 |
| 37 | Advanced SQL Tutorial Temp Tables | 2021-02-02 12:00:13+00:00 | 110595 | 100 | 2729 | 2 | 2021 | Feb-21 |
| 38 | Advanced SQL Tutorial String Functions + Use Cases | 2021-02-04 12:00:04+00:00 | 67866 | 89 | 1939 | 2 | 2021 | Feb-21 |
| 39 | Advanced SQL Tutorial Stored Procedures + Use Cases | 2021-03-16 11:00:07+00:00 | 172546 | 108 | 3661 | 3 | 2021 | Mar-21 |
| 40 | Advanced SQL Tutorial Subqueries | 2021-04-20 11:00:32+00:00 | 170490 | 152 | 4317 | 4 | 2021 | Apr-21 |
| 41 | Data Analyst Portfolio Project SQL Data Exploration Project 1/4 | 2021-05-04 11:00:31+00:00 | 1106558 | 2501 | 22620 | 5 | 2021 | May-21 |
| 42 | Data Analyst Portfolio Project Data Cleaning in SQL Project 3/4 | 2021-05-25 11:30:01+00:00 | 202329 | 556 | 4707 | 5 | 2021 | May-21 |

• THERE ARE TOTAL 18 SQL VIDEOS ARE THERE

❖ WHICH VIDEO GOT THE MOST VIEWS?

- QUERY

```
1 • SELECT * FROM sakila.alexdata
2   ORDER BY views DESC
3   LIMIT 1;
```

- OUTPUT

| id | title_name | publishing_date | views | comments | likes | month | year | yearmonth |
|----|---|---------------------------|---------|----------|-------|-------|------|-----------|
| 41 | Data Analyst Portfolio Project SQL Data Exploration Project 1/4 | 2021-05-04 11:00:31+00:00 | 1106558 | 2501 | 22620 | 5 | 2021 | May-21 |

- DATA ANALYST PROTFOLIO PROJECT GOT MOST VIEWS

❖ WHICH VIDEOS GOT MOST LIKES TO VIEWS RATIO?

- QUERY

```
1 • SELECT
2   *,(likes/views) as Likes_to_views_ratio
3 FROM alexdata
4 ORDER BY Likes_to_views_ratio DESC
5 LIMIT 5;
```

- OUTPUT

| id | title_name | publishing_date | views | comments | likes | month | year | yearmonth | Likes_to_views_ratio |
|----|--|---------------------------|--------|----------|-------|-------|------|-----------|----------------------|
| 23 | FREE Data Analyst Bootcamp!! | 2023-02-07 12:30:11+00:00 | 225946 | 895 | 13385 | 2 | 2023 | Feb-23 | 0.0592 |
| 4 | Imposter Syndrome in Tech Alex The Analyst Show Episode 5 | 2020-10-08 14:26:27+00:00 | 6789 | 175 | 344 | 10 | 2020 | Oct-20 | 0.0507 |
| 24 | How to Become a Data Analyst in 2023 (Completely FREE!) | 2023-01-31 12:30:06+00:00 | 242201 | 466 | 11372 | 1 | 2023 | Jan-23 | 0.0470 |
| 79 | Top 3 Tips on Using LinkedIn to Land a Job | 2020-11-17 14:11:52+00:00 | 145622 | 177 | 6320 | 11 | 2020 | Nov-20 | 0.0434 |
| 7 | Asking My Wife Your Questions About Me Alex The Analyst Show Episode 8 | 2020-10-27 16:06:53+00:00 | 12570 | 214 | 530 | 10 | 2020 | Oct-20 | 0.0422 |

- THESE ARE THE TOP 5 VIDEOS GOT MOST LIKES TO VIEWS RATIO

❖ HOW MANY VIDEOS HE HAS POSTED IN EACH TYPE?

- QUERY

```
1 • SELECT
2 CASE
3     WHEN title_name like "%ython%" THEN "Python"
4     WHEN title_name like "%SQL%" THEN "SQL"
5     WHEN title_name like "%Power BI%" THEN "POWER BI"
6     WHEN title_name like "%Tableau%" THEN "TABLEAU"
7     WHEN title_name like "%Excel%" THEN "Excel"
8     ELSE "OTHERS"
9 END AS Category ,COUNT(*) AS Total
10 FROM alexdata
11 GROUP BY category;
```

- OUTPUT

| | Category | Total |
|---|----------|-------|
| ▶ | OTHERS | 29 |
| | SQL | 18 |
| | Excel | 7 |
| | TABLEAU | 5 |
| | POWER BI | 9 |
| | Python | 13 |

❖ IN WHICH MONTH HE POSTED HIGHEST NO OF VIDEOS?

- QUERY

```
1 • SELECT yearmonth,COUNT(*) AS Total
2   FROM alexdata
3   GROUP BY yearmonth
4   ORDER BY Total DESC
```

- OUTPUT

| | yearmonth | Total |
|---|-----------|-------|
| ▶ | Dec-20 | 6 |
| | Mar-20 | 6 |
| | Oct-20 | 5 |
| | Nov-20 | 5 |
| | Nov-22 | 5 |
| | Dec-21 | 4 |

- IN DECEMBER 2020 AND MARCH 2020 HE POSTED HIGHEST NO OF VIDEOS

❖ HOW MANY MONTHS HAVE MORE THAN ONE MILLION VIEWS?

• QUERY

```
1 • SELECT yearmonth,SUM(views) AS Total_views
2   FROM alexdata
3   GROUP BY yearmonth
4   HAVING Total_views > 1000000
```

• OUTPUT

| | yearmonth | Total_views |
|---|-----------|-------------|
| ▶ | Mar-20 | 1323324 |
| | May-21 | 1308887 |

❖ WHAT IS THE VIEWS CHANGE PERCENTAGE BY MONTH IN 2020?

• QUERY

```
1 • WITH CTE AS (  
2   SELECT month,SUM(VIEWS) AS Present_month_views  
3   FROM alexdata  
4   WHERE year = 2020  
5   GROUP BY month),  
6 CTE2 AS (  
7   SELECT month,Present_month_views,  
8   lag(Present_month_views) OVER (ORDER BY month) as Previous_month_views  
9   FROM CTE)  
10  
11 SELECT  
12 *,ROUND(((Present_month_views-Previous_month_views)/Previous_month_views)*100,2) AS Views_Change_Pct  
13 FROM CTE2;
```

• OUTPUT

| | month | Present_month_views | Previous_month_views | Views_Change_Pct |
|---|-------|---------------------|----------------------|------------------|
| ▶ | 3 | 1323324 | NULL | NULL |
| | 4 | 242498 | 1323324 | -81.68 |
| | 6 | 51925 | 242498 | -78.59 |
| | 9 | 464586 | 51925 | 794.73 |
| | 10 | 197466 | 464586 | -57.50 |
| | 11 | 195621 | 197466 | -0.93 |
| | 12 | 368420 | 195621 | 88.33 |



THANK YOU