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Advanced SQL Queries
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Reference: - Youtube - Alex the Analyst video

#### Introduction:

This document covers SQL topics like Aggregate functions, Joins, Windows Functions and joins.

#### -- Find SQL related videos

select \* from alexdata where title name like '%SQL%';

### -- Most viewed videos

select title\_name, sum(views) as total\_views from alexdata
group by title\_name
order by sum(views) desc;

#### -- Likes to views ratio SQL

select title\_name, (likes/views) as views\_ration from alexdata
group by title\_name
order by (likes/views) desc;

#### -- Distinct months where videos are Posted

select distinct(yearmonth) from alexdata;

## -- No of videos posted per month

select yearmonth, count(\*) from alexdata
group by yearmonth order by count(\*) desc;

## -- Case Statement to See videos per Tool category

Select

```
case
    when title_name like '%SQL%' then 'SQL'
    when title_name like '%ytho%' then 'Python'
    when title_name like '%xcel%' then 'Excel'
else
    title name end as titles
```

from alexdata;

## -- Videos with More than million views

select title name, views from alexdata where view > 1000000;

# -- % Change in Number of views using lag function

SELECT total\_views, lag(total\_views) over(order by yearmonths) as previous\_views FROM ( select sum(views) as total\_views, EXTRACT('YEAR' FROM YEARMONTH) as yearmonthsfrom alexdata group by EXTRACT('YEAR' FROM YEARMONTH)) A;