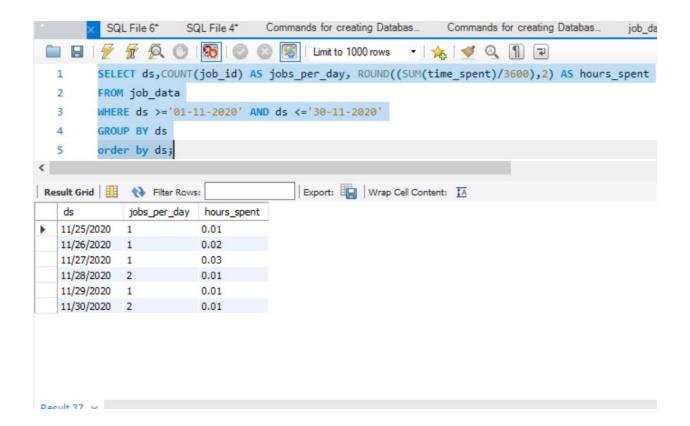
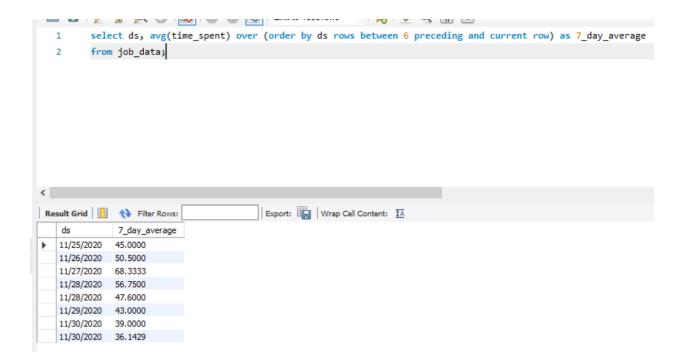
Write an SQL query to calculate the number of jobs reviewed per hour for each day in November 2020



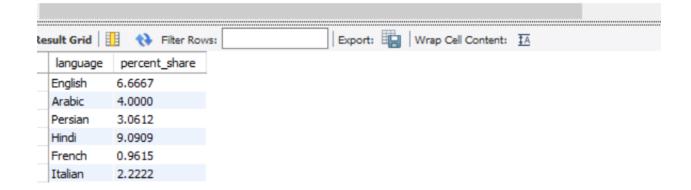
Write an SQL query to calculate the 7-day rolling average of throughput. Additionally, explain whether you prefer using the daily metric or the 7-day rolling average for throughput, and why.

I would use 7-day rolling average as while plotting the graph it will be much more accurate and will not have sharp dip or rise which can hinder the management while taking decisions.



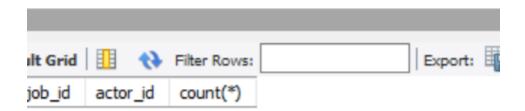
Write an SQL query to calculate the percentage share of each language over the last 30 days.

- select language, count(time_spent)/sum(time_spent) * 100 as percent_share from job_data
- 2 group by language

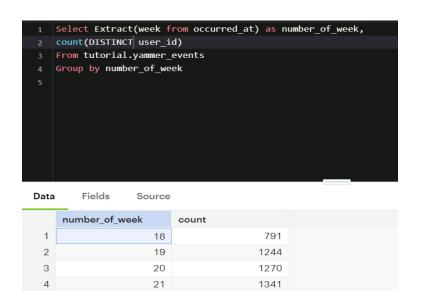


Write an SQL query to display duplicate rows from the job_data table.

 SELECT job_id,actor_id,count(*) FROM job_data group by job_id,actor_id having count(*)>1

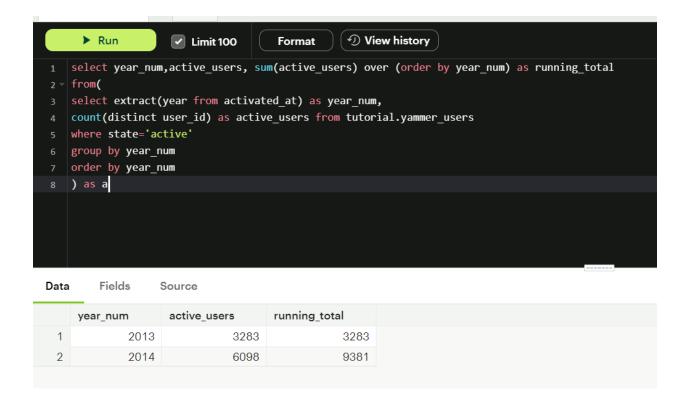


CASE STUDY 2 Q1 Write an SQL query to calculate the weekly user engagement



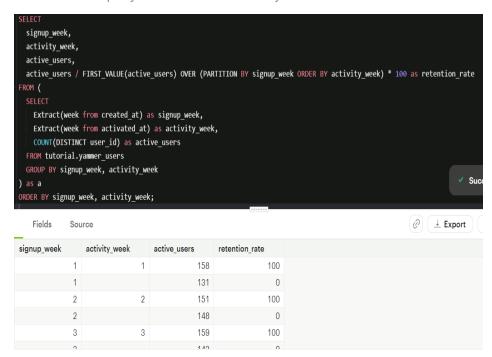
Here we are trying to measure the activeness of a user on a weekly basis which is nothing but to understand how engaged the user is with the product. We see that the number grow with the rising number of weeks

Write an SQL query to calculate the user growth for the product.



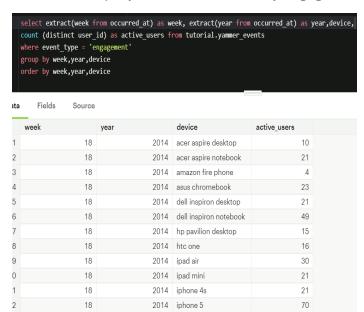
The above result shows the number of users increased with time in 2013 and 2014. As per the running total the numbers almost increased by thrice of what they were initially.

Write an SQL query to calculate the weekly retention of users based on their sign-up cohort.



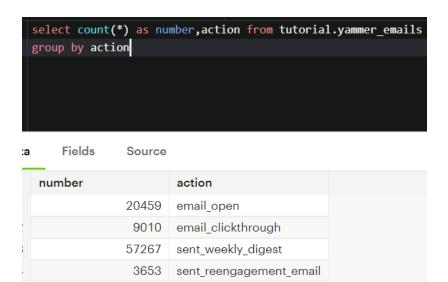
In this query, we can see if the user who created his profile on a particular week has used the product on the same or not and for how much time. It also signifies how involved the user has been with the product.

Write an SQL query to calculate the weekly engagement per device



By above result we can understand that users prefer using mobile phones while using the product.

Write an SQL query to calculate the email engagement metrics.



This result show how much people are engaged with their mailboxes which can help the managers to decide to start any email ad campaign.