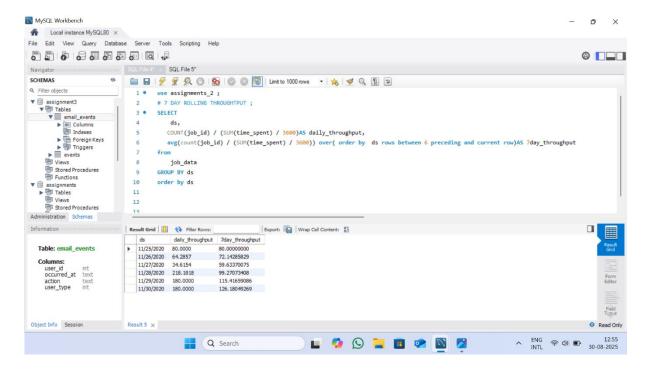
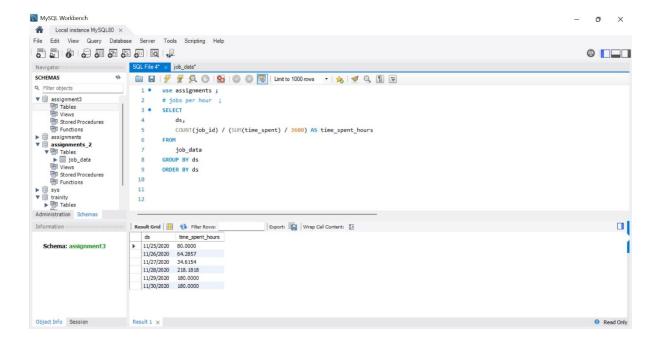
Operation Analytics and Investigating Metric Spike

Case Study 1: Job Data Analysis

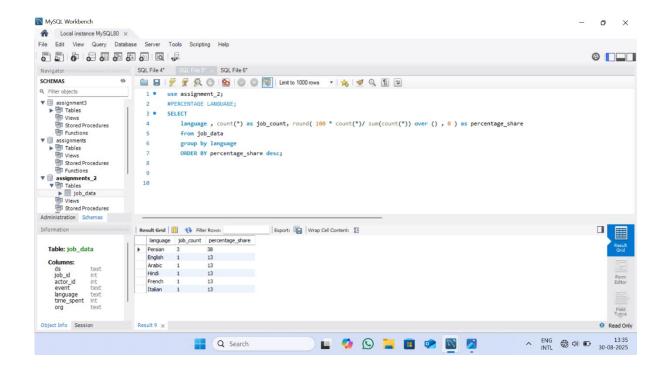
1. Write an SQL query to calculate the number of jobs reviewed per hour for each day in November 2020.



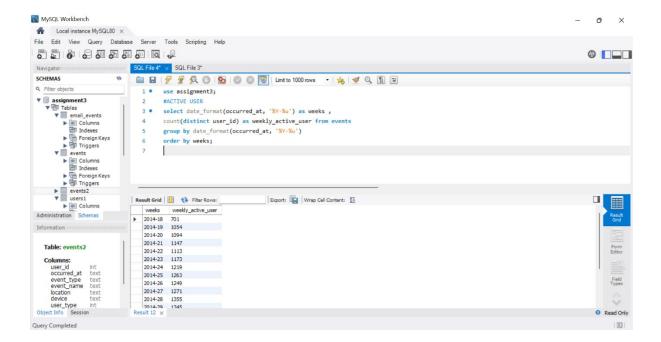
2. Write an SQL query to calculate the 7-day rolling average of throughput



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

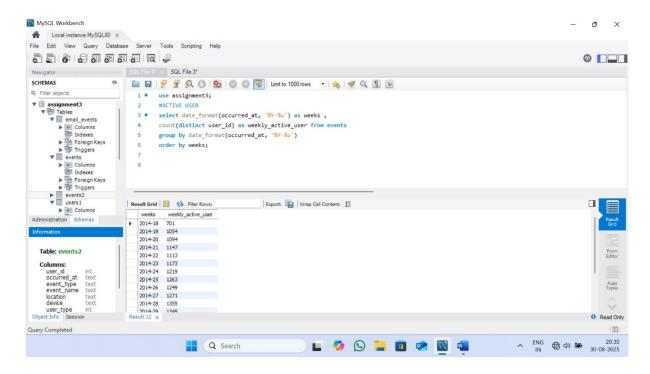


4. Write an SQL query to display duplicate rows fr om the job_data table.

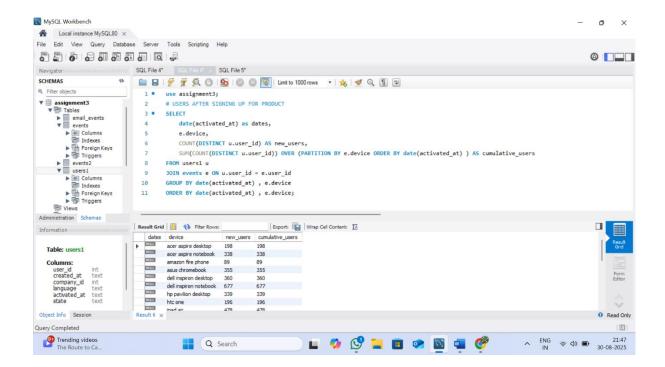


Case Study 2: Investigating Metric Spike

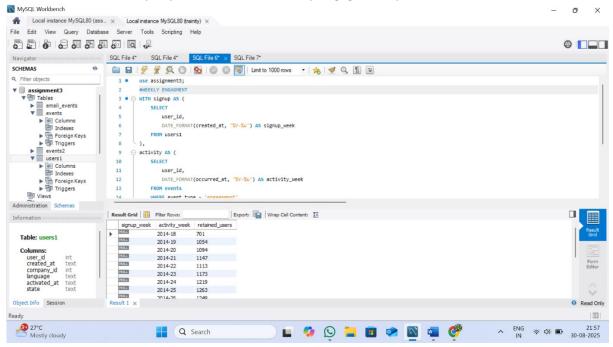
1. Write an SQL query to calculate the weekly user engagement.

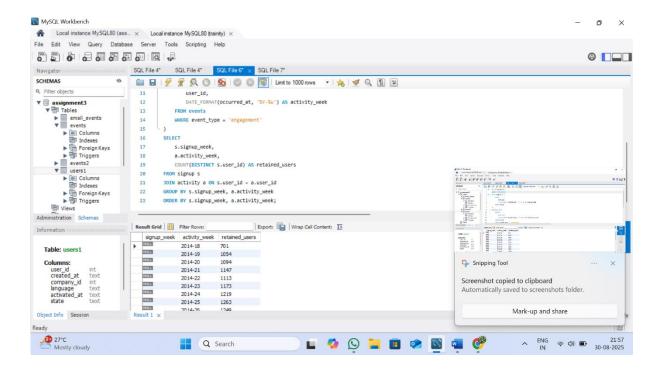


2. Write an SQL query to calculate the user growth for the product.

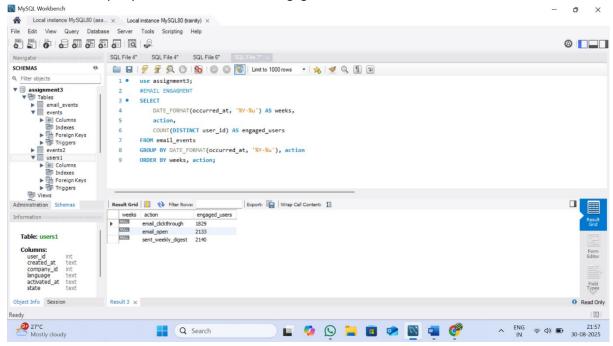


3. Write an SQL query to calculate the weekly engagement per device





4. Write an SQL query to calculate the email engagement metrics.



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

