

# Project description:

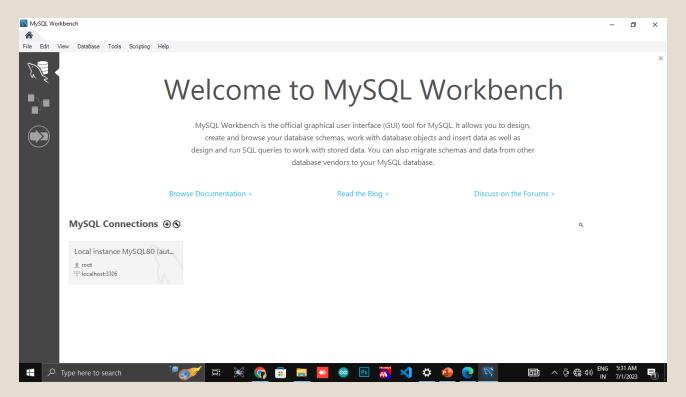
- Operation Analytics is the analysis done for the complete end to end operations of a company.
- With provided data sets, tables from the which required insights and answers for the questions has been provided.
- This project helps in investigating metric spike.
- With the help of this project, the company finds the areas on which it must improve upon.

## Approach:

- oIn this project, I have handled case study-1 (job data) and case study-2 (investigating metric spike) separately.
- oln this project, I have used case statements and week() functions to extract information on weekly basis.

#### Tech-Stack used:

For this project I have used "MySQL workbench"
 to perform the queries.



# Insights:

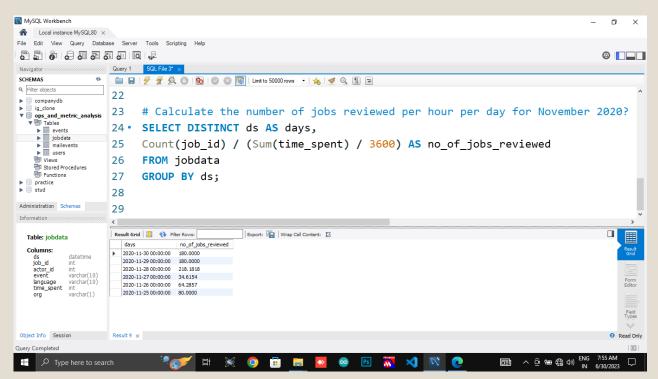
- •This project is very difficult to accomplish, and it is very useful for those who are looking for advanced knowledge of SQL.
- •Through this project I gained better understanding of the given dataset.

#### Results:

•Through this project I have achieved the knowledge of writing some complex queries.

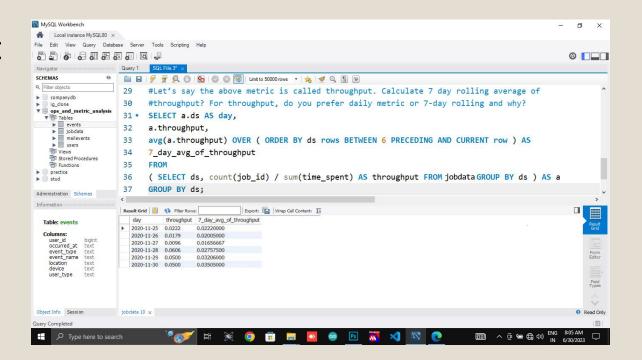
# Case Study 1 (Job Data) Number of jobs reviewed:

The number of jobs has been reviewed per hour per day for November 2020.



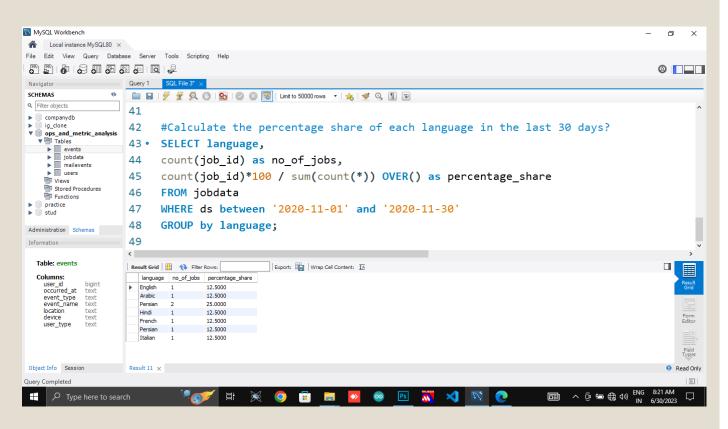
## Throughput:

7 day rolling average of throughput has been calculated.



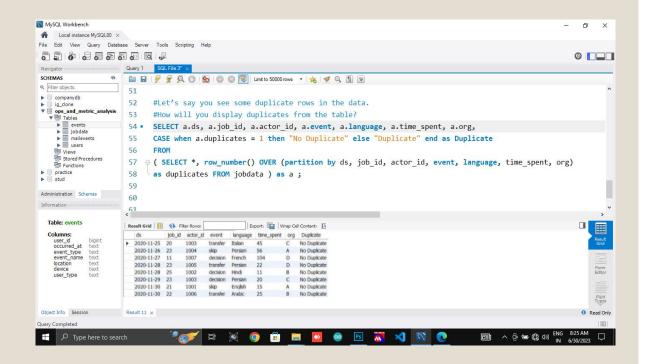
## Percentage share of each language:

The percentage share of each language in the last 30 days has been calculated.



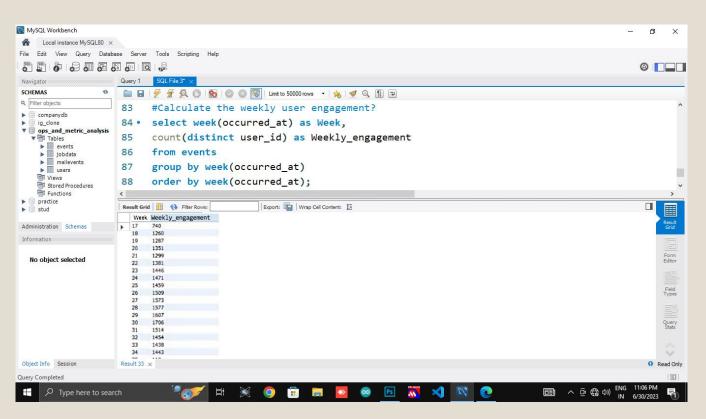
### Duplicate rows:

Rows without duplicates has been displayed from the table.



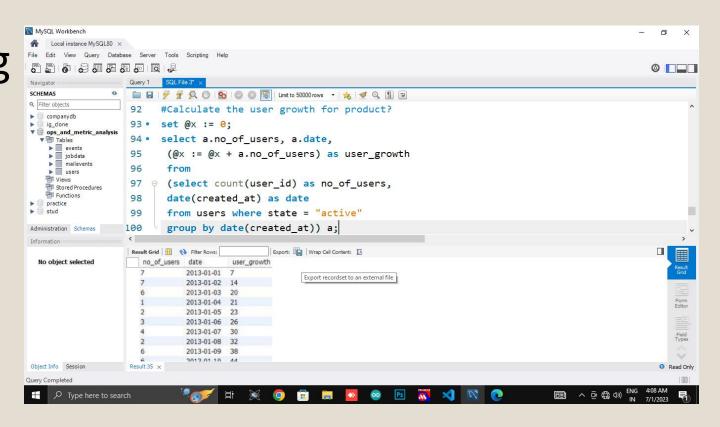
# Case Study 2 (Investigating metric spike) User Engagement:

The weekly user engagement has been selected with week.



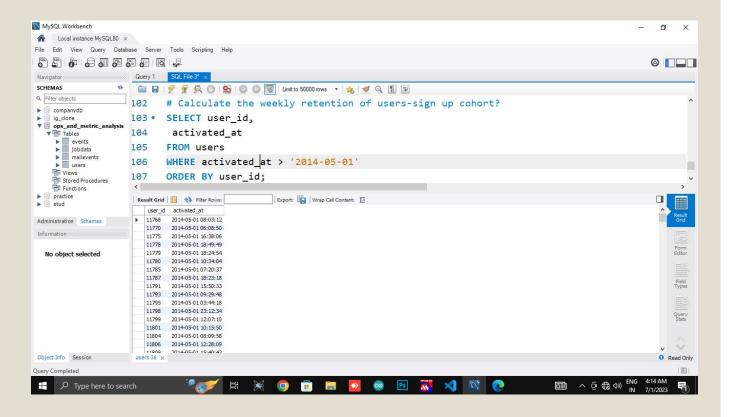
#### **User Growth:**

Amount of users growing over time for a product has been selected



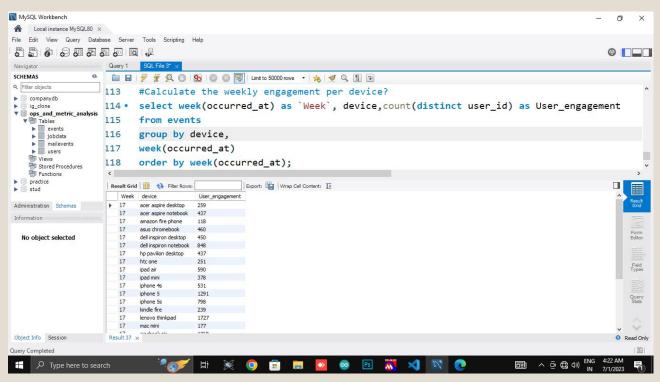
### Weekly Retention:

The weekly retention of users-sign up cohort has been calculated.



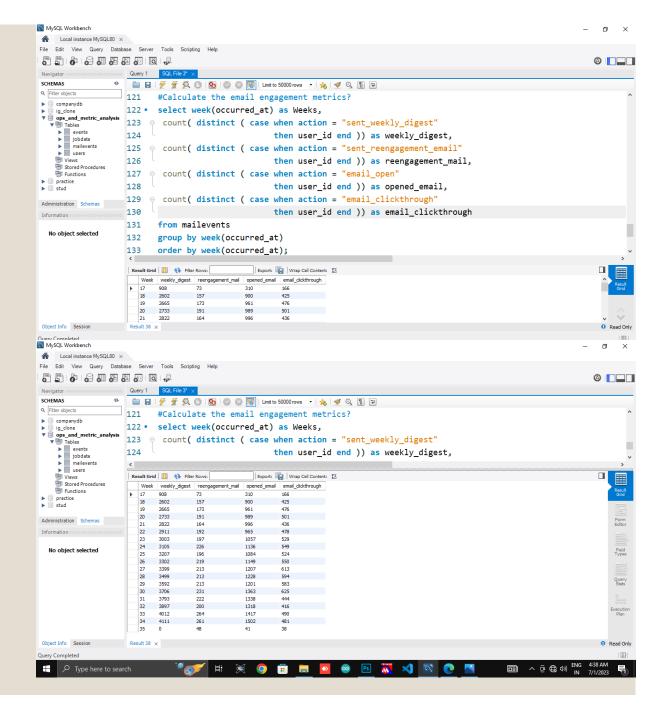
## Weekly Engagement:

The weekly user engagement per device has been calculated.



### **Email Engagement:**

The user email engagement metrics has been calculated.



#### Conclusion:

 Through this project, I gained advanced knowledge of SQL queries.

Thank you.