

Project 3

Operation Analytics and investigating metric spike

Description

Operation analytics is performed on the operations of the company to improve the efficiency of the project, to know the status and to maintain efficient work flow.

Metric spike investigation is one of the key parts of operation analytics. It will help in understanding the increase or decrease in the metrics which are key for understanding the progress.

I understood the given data completely and used several analytical tools to find the efficiency improving plans. I created a database with the given data and used SQL to find the required information.

Approach

- Understood the given problem.
- Created database with the given data.
- Used several analytical tools to analyze.

Tech stack used

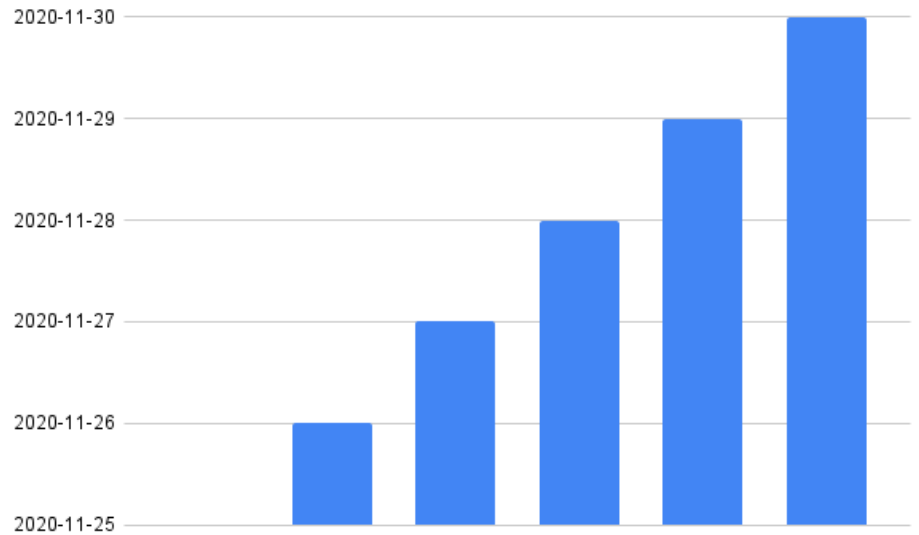
- SQL workbench CE
 - Excel 2019
 - Tableau 2022.2
-

Insights

Case study 1:

A) No of jobs per day

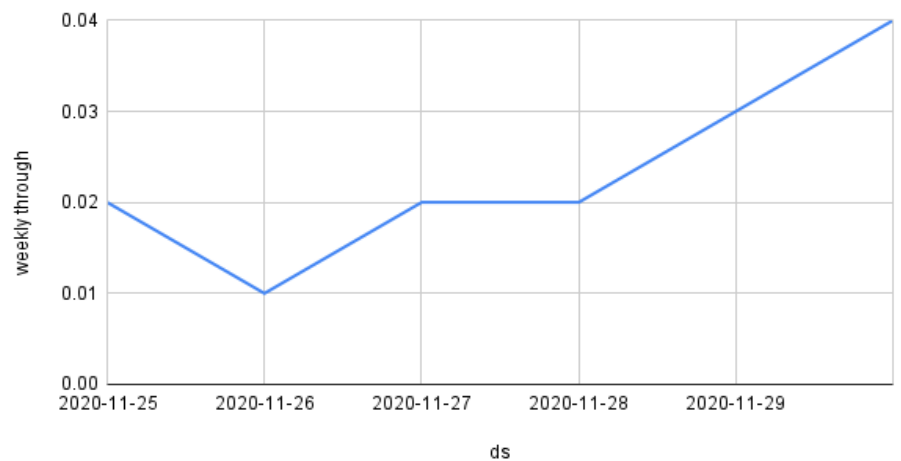
DS	Jobs per day
'2020-11-25'	'0.0417'
'2020-11-26',	'0.0417'
'2020-11-27',	'0.0417'
'2020-11-28',	'0.0833'
'2020-11-29', '	0.0417'
'2020-11-30',	'0.0833'



B). weekly average

DS	Weekly throughput
'2020-11-25'	0.02
'2020-11-26',	0.01
'2020-11-27',	0.02
'2020-11-28',	0.02
'2020-11-29', '	0.03
'2020-11-30',	0.04

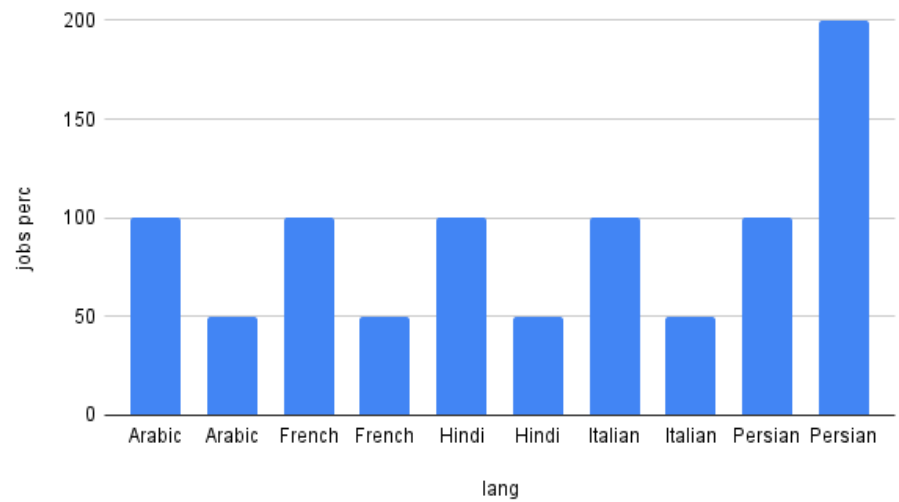
weekly through vs. ds



c). percentage by lang

lang	Jobs perc
Arabic	100
Arabic	50
French	100
French	50
Hindi	100
Hindi	50
Italian	100
Italian	50
Persian	100
Persian	200

jobs perc



D).duplicates in table

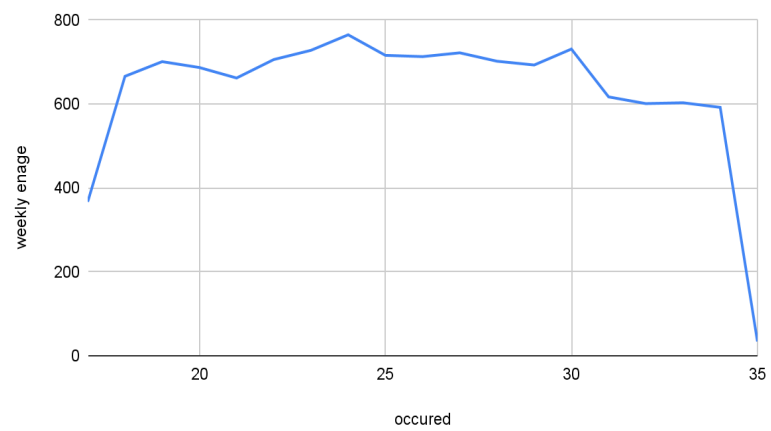
I will group records which have more than one entry using group by function

Case study 2

A). user weekly engagement

Event Occurred	Weekly engagement
17	367
18	666
19	701
20	687
21	662
22	706
23	728
24	765
25	716
26	713
27	722
28	702
29	693
30	731
31	617
32	601
33	603
34	592
35	34

weekly enage vs. occurred



B). null

c

week	weekly active users	computer	phone	tablet
17	367	155	114	30
18	666	328	209	71
19	701	329	236	69
20	687	339	228	77
21	662	302	219	70
22	706	329	220	74
23	728	342	242	73
24	765	348	242	85
25	716	328	207	77
26	713	323	234	71
27	722	317	232	84
28	702	334	210	73
29	693	319	207	68
30	731	347	236	66
31	617	316	178	48
32	601	303	158	52
33	603	318	149	41
34	592	300	146	50
35	34	16	8	1

weeklyactiveusers, computer, phone and tablet

