

WEBSITE TRAFFIC ANALYSIS

PHASE 3 : DEVELOPMENT PART 1

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1.0 INTRODUCTION:

Website traffic analysis is the process of collecting, examining, and interpreting data related to the visitors and interactions on a website. It provides invaluable insights into user behavior, preferences, and trends, helping organizations make informed decisions, optimize their online presence, and enhance user experiences.

1.1 Abstract:

This project aims to analyze website traffic data for insights into user behavior, popular pages, and traffic sources. It involves data collection, visualization using IBM Cognos, and Python for advanced analysis. The goal is to optimize user experiences and enhance website performance.

1.2 Problem Statement:

The problem of "Website Traffic Analysis" lies in the need for organizations to effectively understand and leverage user behavior on their websites

2.0 Dataset

The dataset given is "Daily web visitors" from kaggle.com

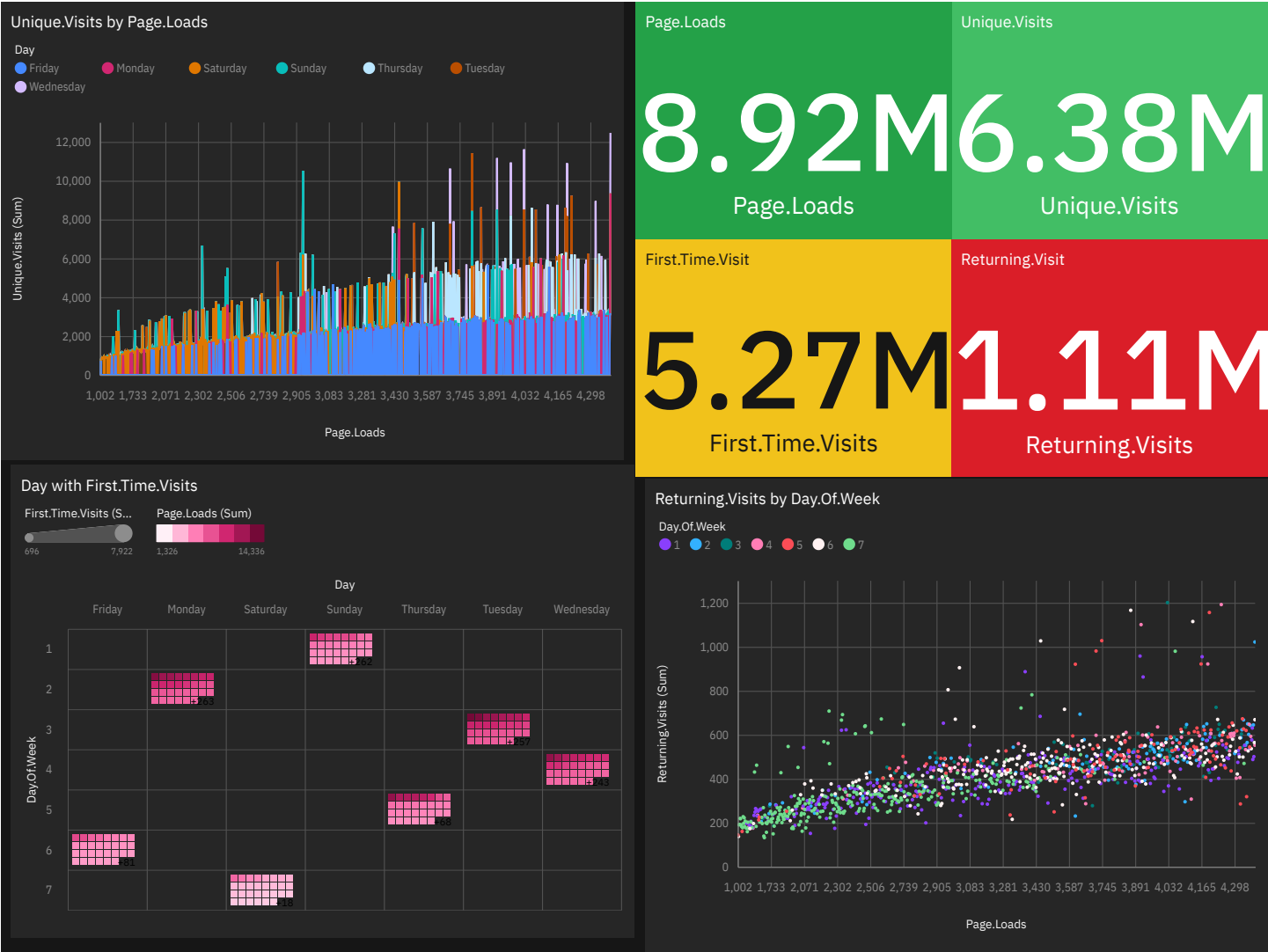
Link:<https://www.kaggle.com/datasets/bobnau/daily-website-visitors>

Row	Day	Day.Of.Wi	Date	Page.Load	Unique.Vi	First.Time	Returning.Visits
1	Sunday	1	9/14/2014	2,146	1,582	1,430	152
2	Monday	2	9/15/2014	3,621	2,528	2,297	231
3	Tuesday	3	9/16/2014	3,698	2,630	2,352	278
4	Wednesd.	4	9/17/2014	3,667	2,614	2,327	287
5	Thursday	5	9/18/2014	3,316	2,366	2,130	236
6	Friday	6	9/19/2014	2,815	1,863	1,622	241
7	Saturday	7	9/20/2014	1,658	1,118	985	133
8	Sunday	1	9/21/2014	2,288	1,656	1,481	175
9	Monday	2	9/22/2014	3,638	2,586	2,312	274

3.0 Analytics using IBM cognos tools

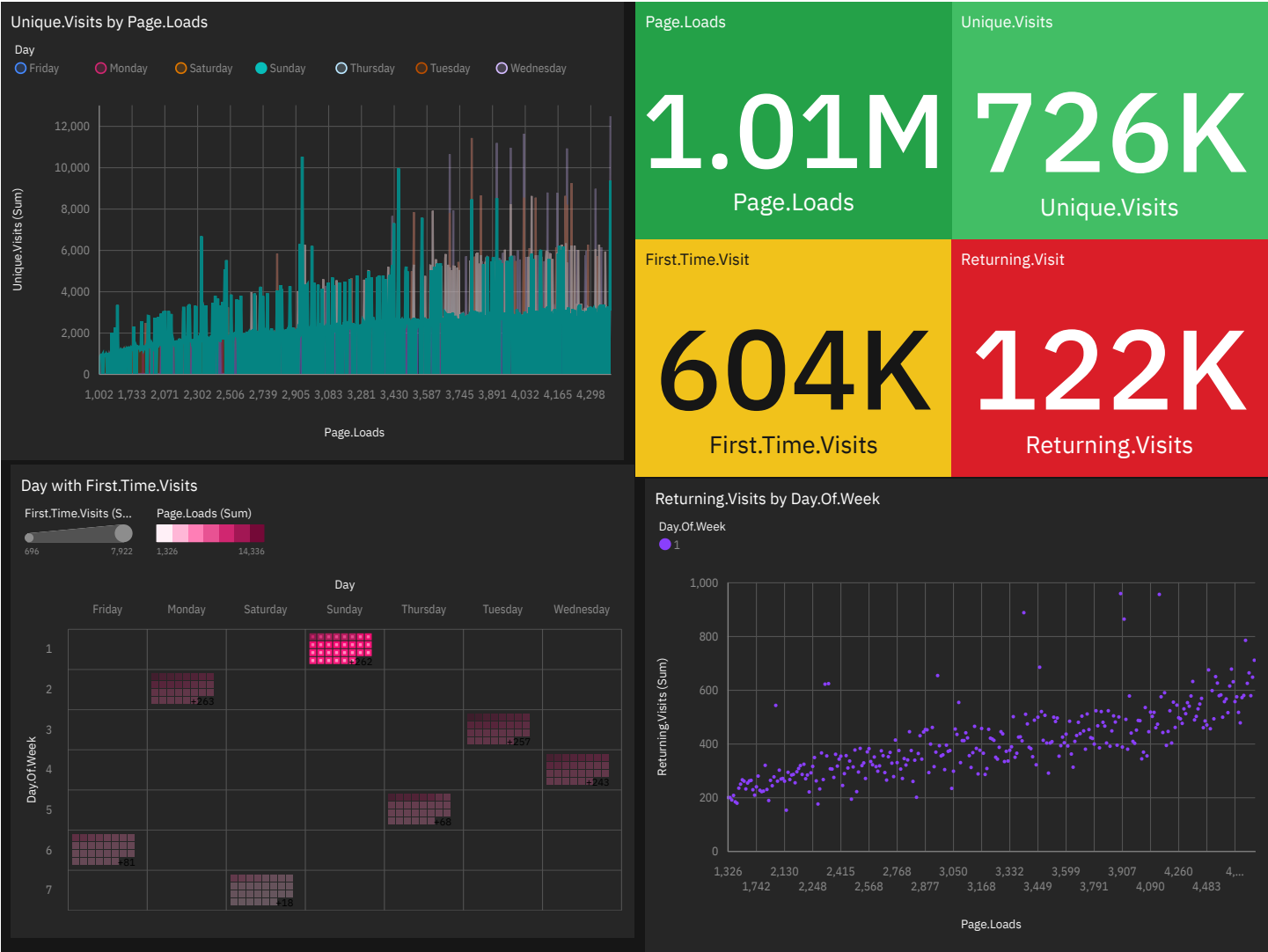
3.1 overall

Tab 1



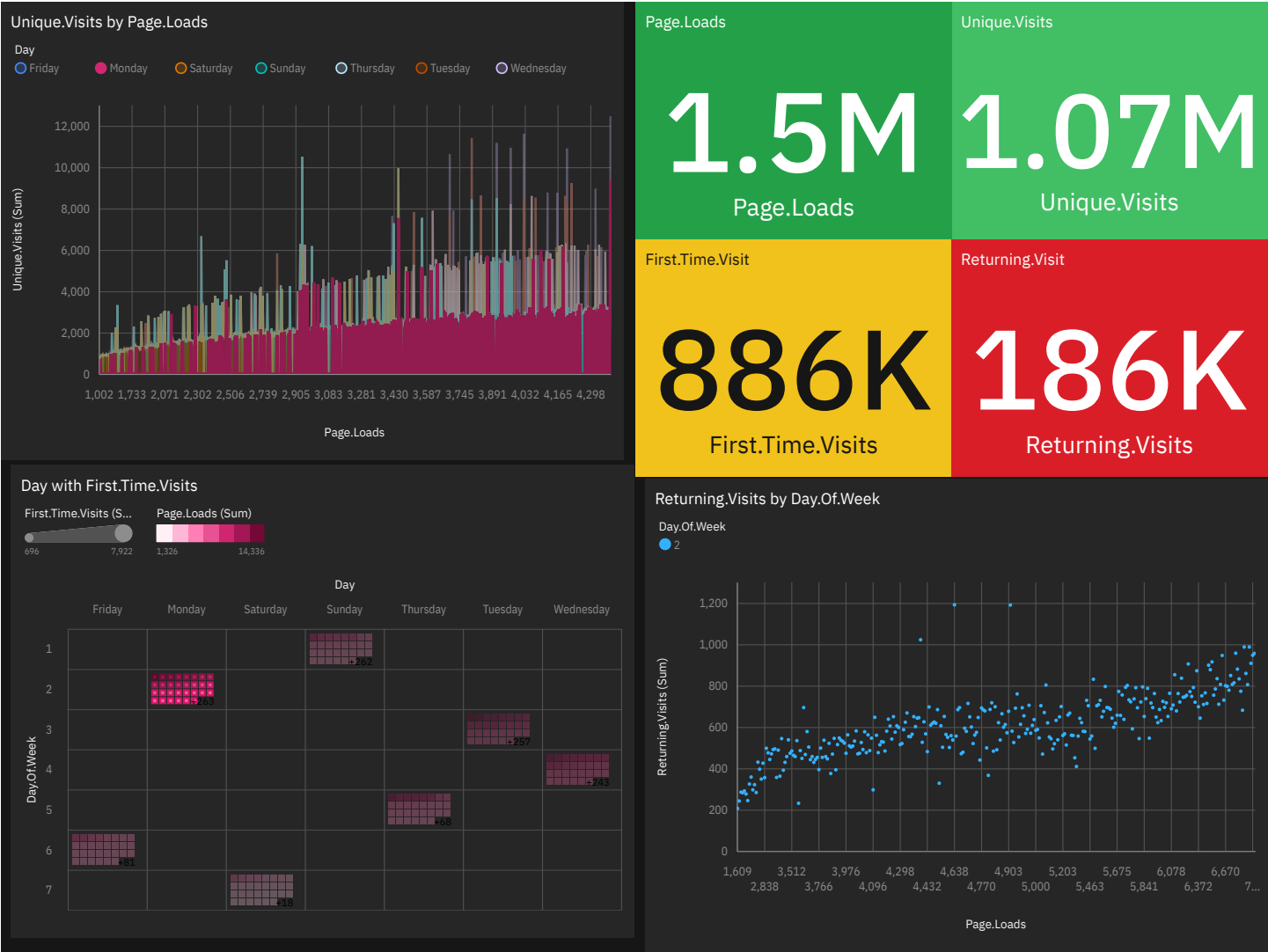
3.2 sunday visitors

Tab 1



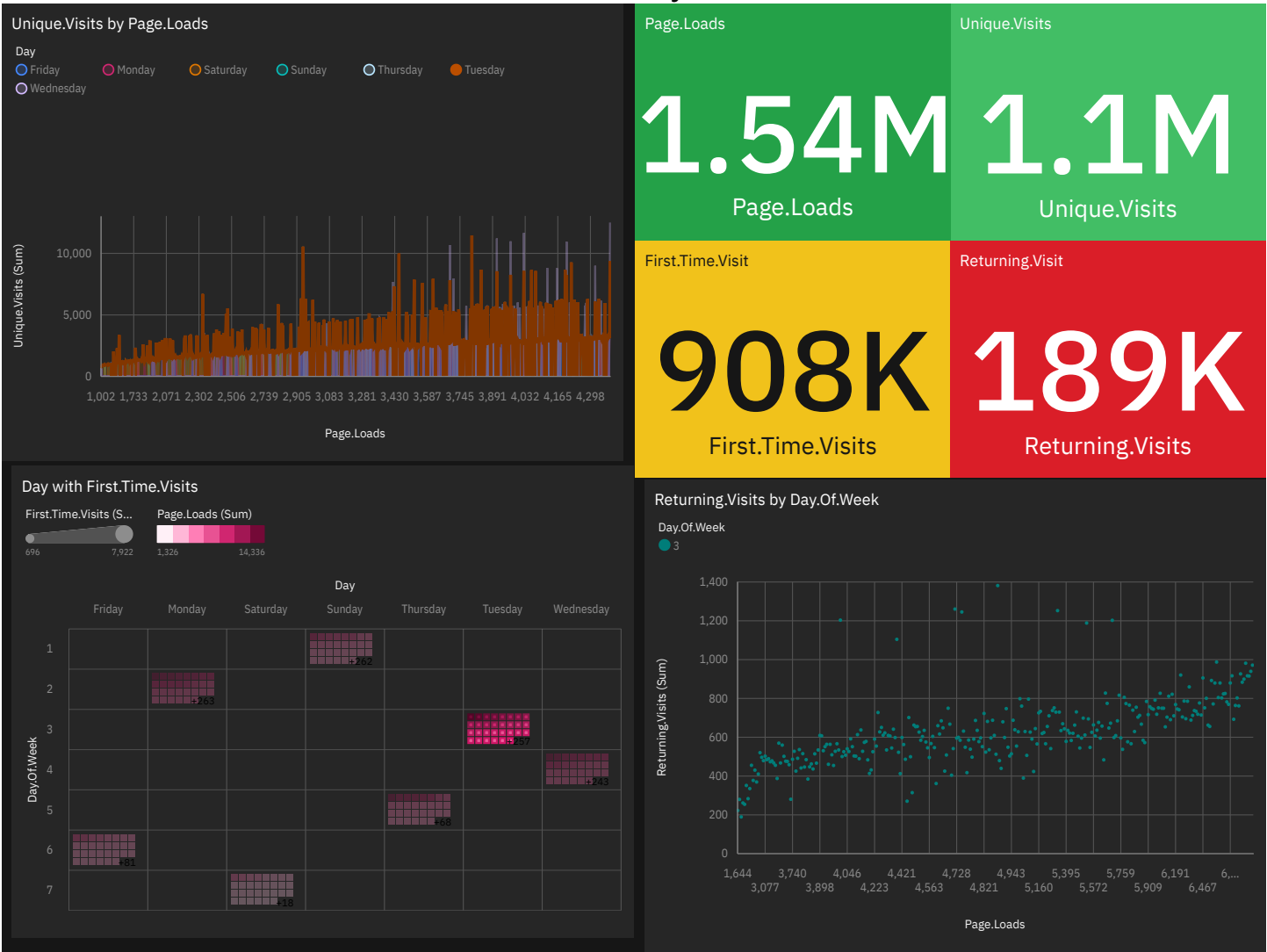
Tab 1

3.3 monday visitors



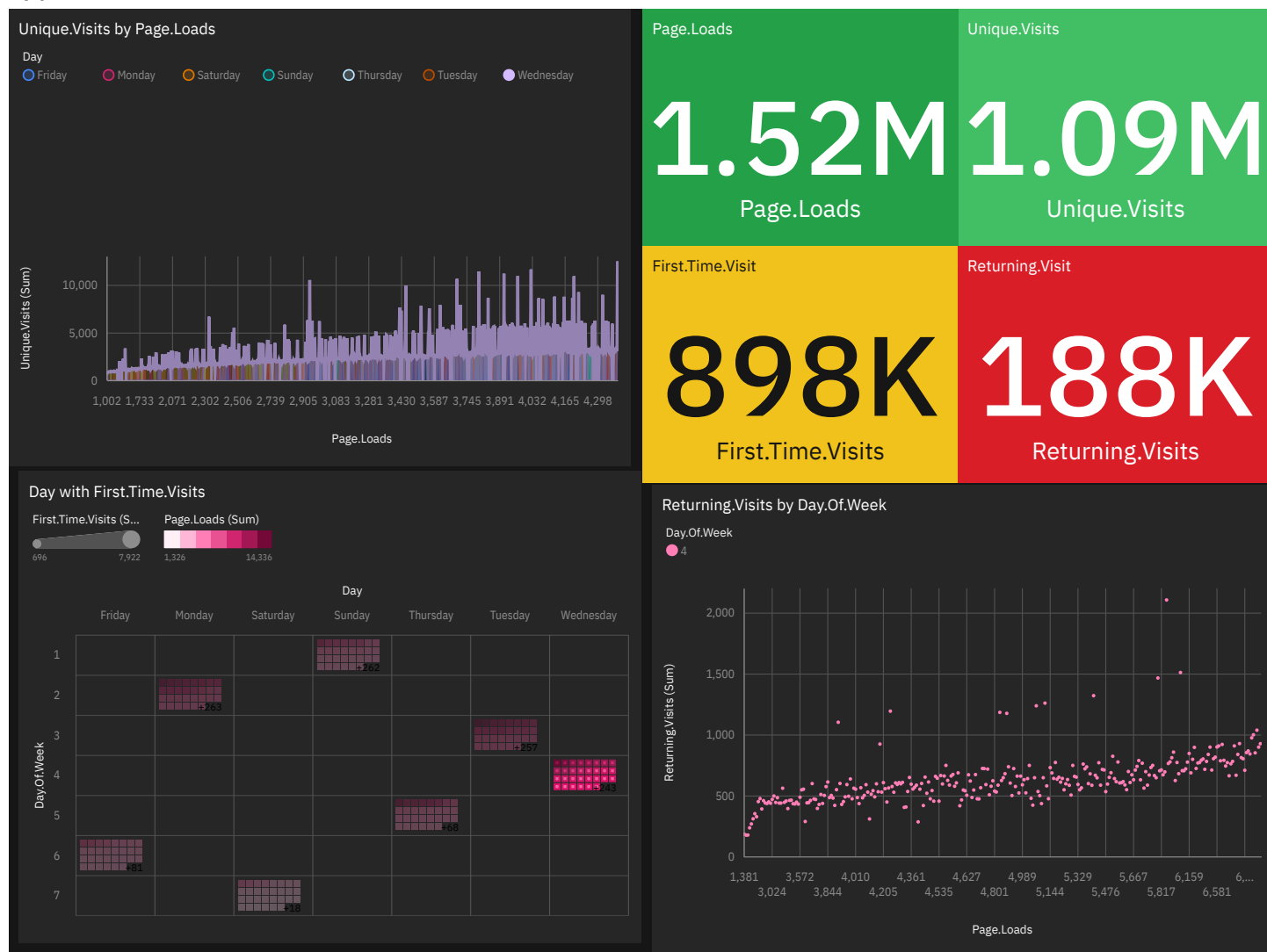
Tab 1

3.4 tuesday visitors



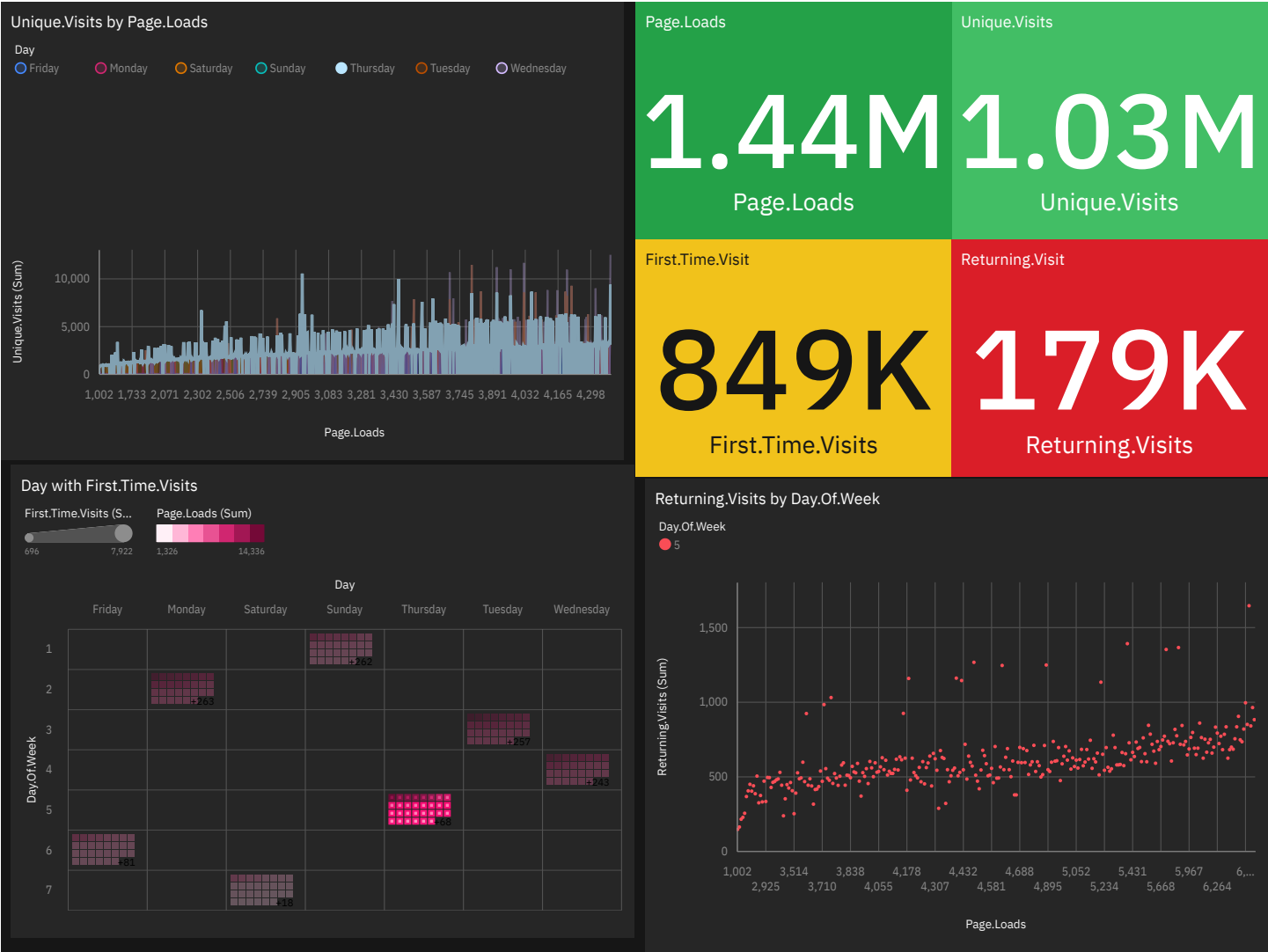
3.5 wednesday visitors

Tab 1



Tab 1

3.6 thursday visitors

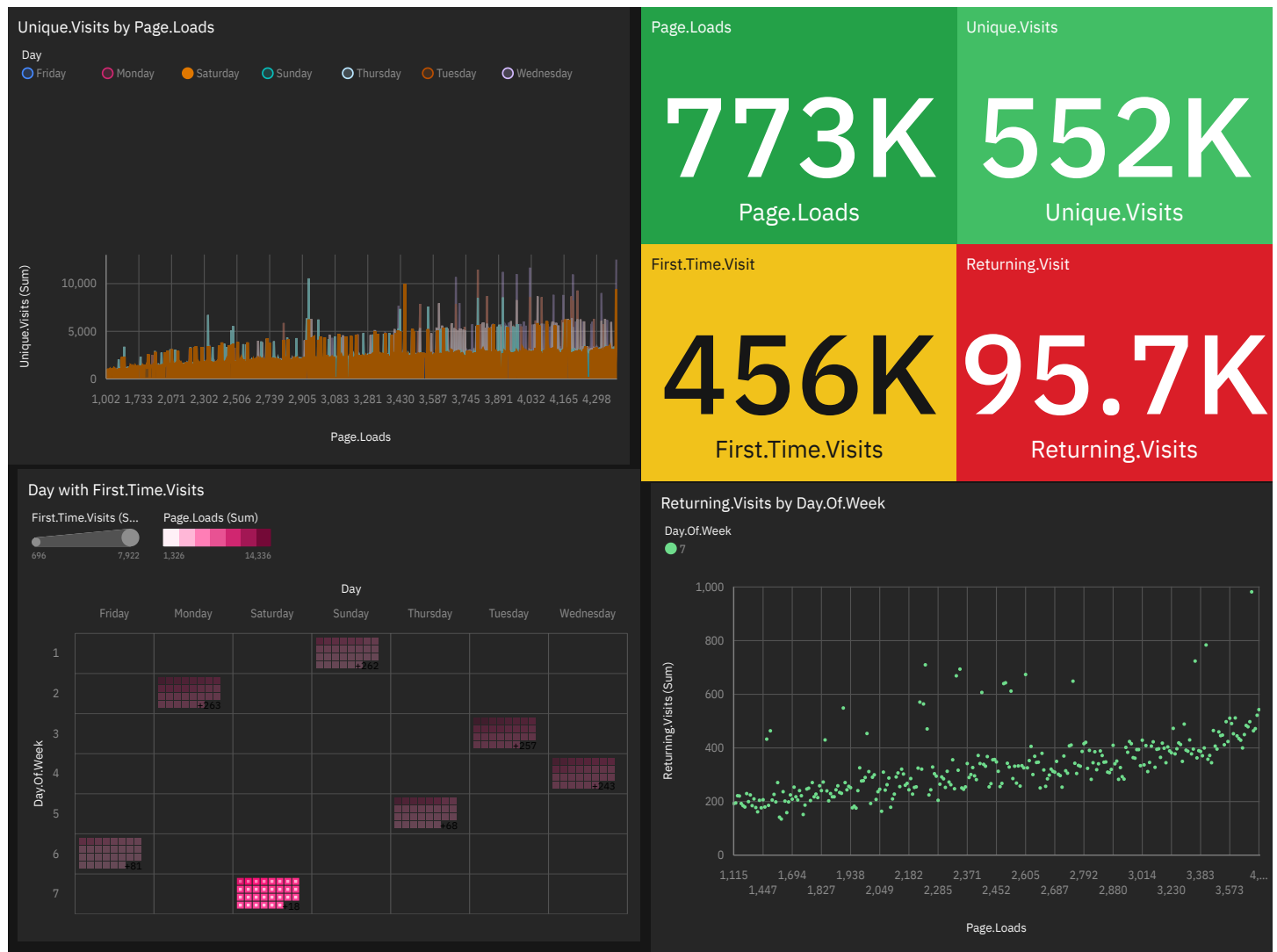


3.7 friday visitors

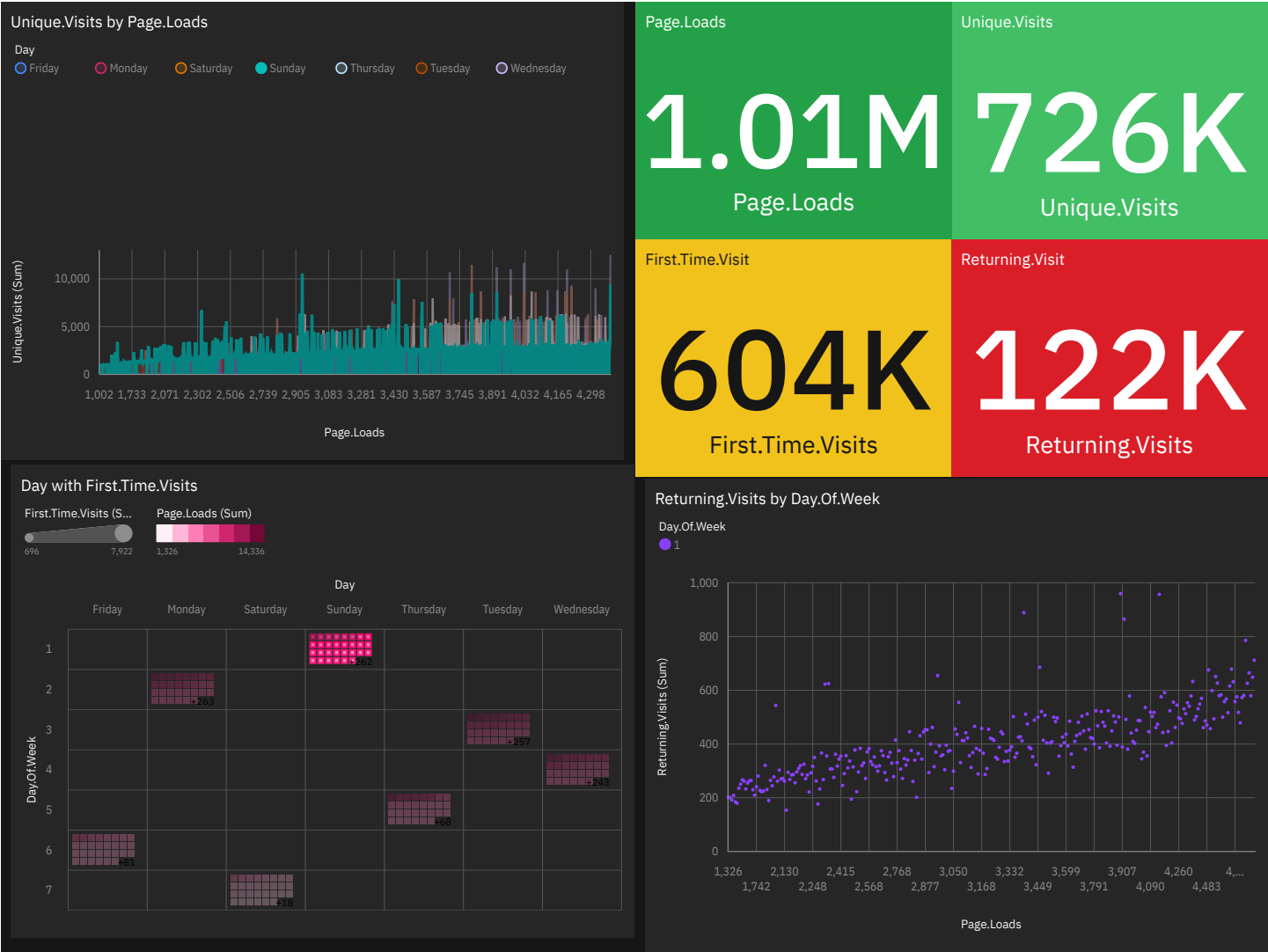


Tab 1

3.8 saturday visitors



Tab 1



4.0 Insights for above “IBM Cognos Analytics”

•unique visits:

Unique.Visits is unusually low when Day is Saturday.

Based on the current forecasting, Unique.Visits may reach almost 481 thousand by Day Monday+1.

It is projected that by Monday+1, 4205 will exceed 3973 in Unique.Visits by almost 1500.

Page.Loads 4376 has the highest Total Returning.Visits but is ranked #5 in Total Unique.Visits.

Page.Loads 4638 has the highest Total Unique.Visits but is ranked #3 in Total Returning.Visits.

Over all values of Page.Loads and Day, the sum of Unique.Visits is almost 6.4 million.

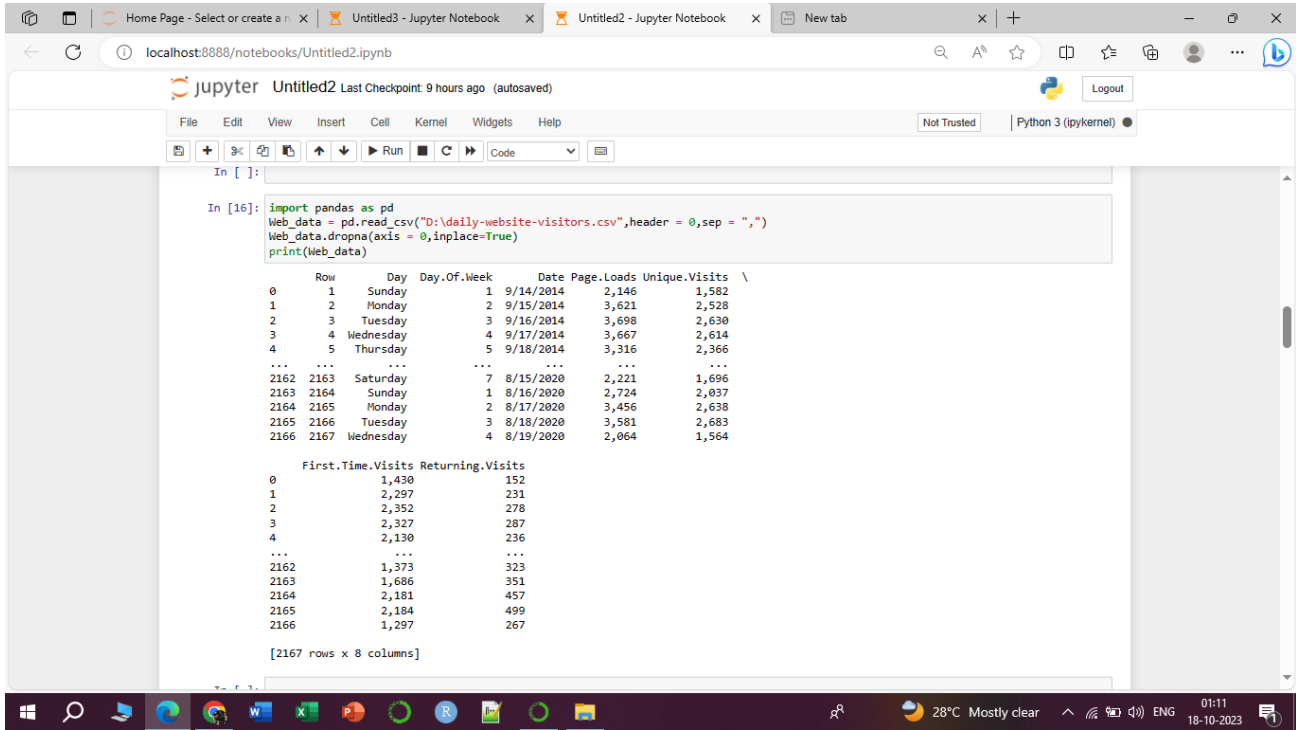
The summed values of Unique.Visits range from 667 to nearly 13 thousand.

For Unique.Visits, the most significant values of Day are Tuesday, Wednesday, Monday, Thursday, and Friday, whose respective Unique.Visits values add up to over 5.1 million, or 80 % of the total.

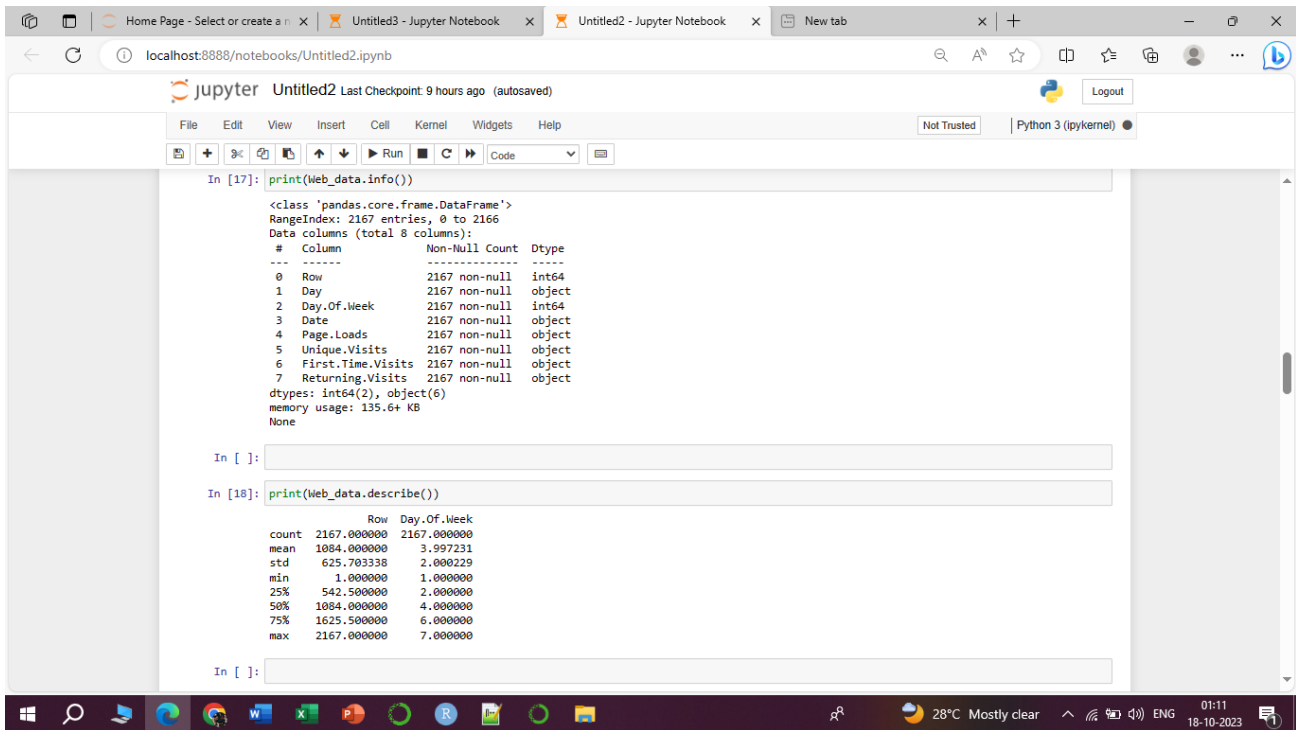
For Unique.Visits, the most significant value of Page.Loads is 4638, whose respective Unique.Visits values add up to over thirteen thousand, or 0.2 % of the total.

5.0 ‘Python Integration’ for Website Traffic Analysis

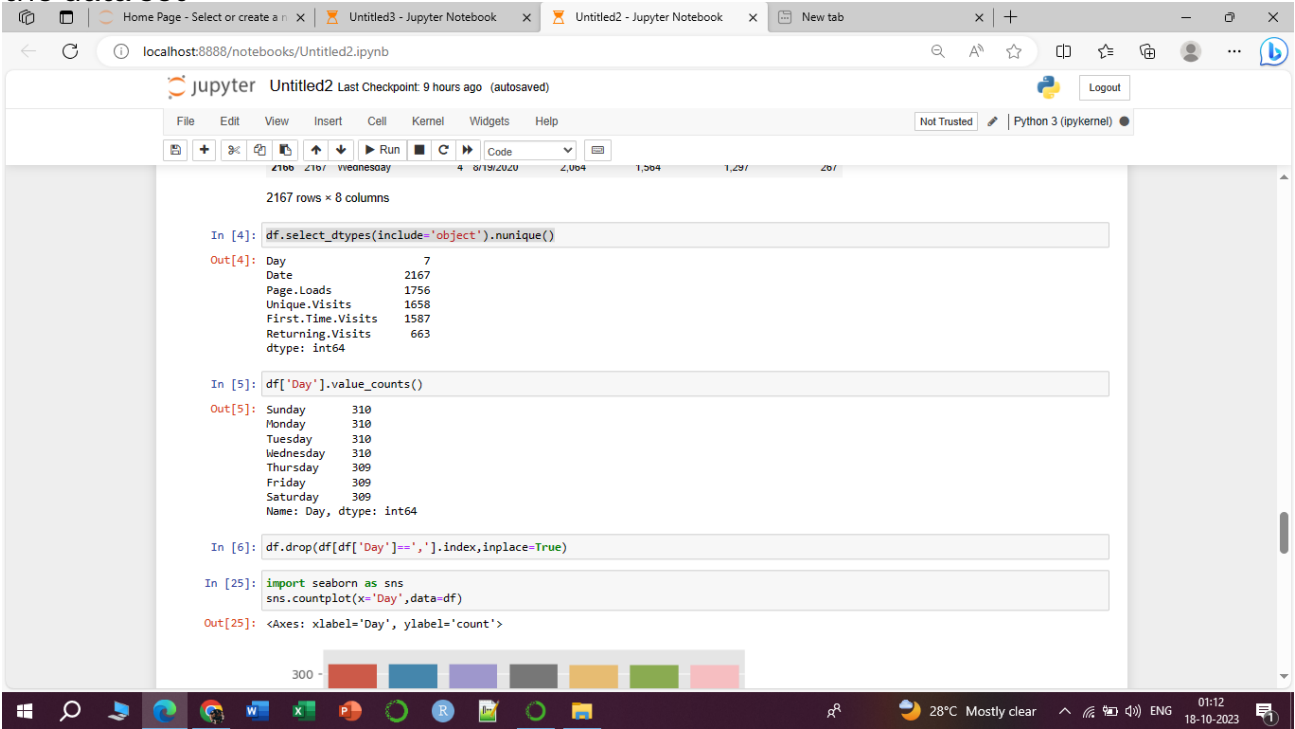
Extraction the Data file from the directory to the python text editor to excecute the data set .



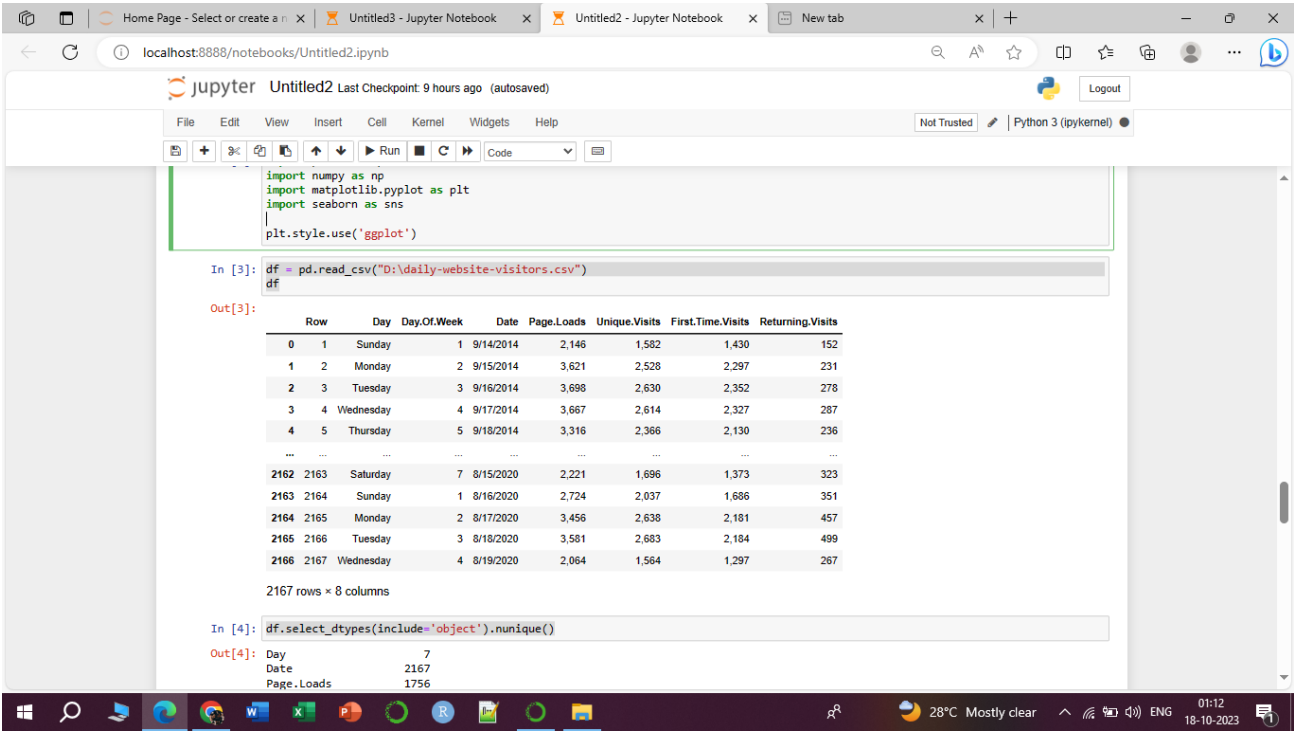
Getting of data set information using info function.



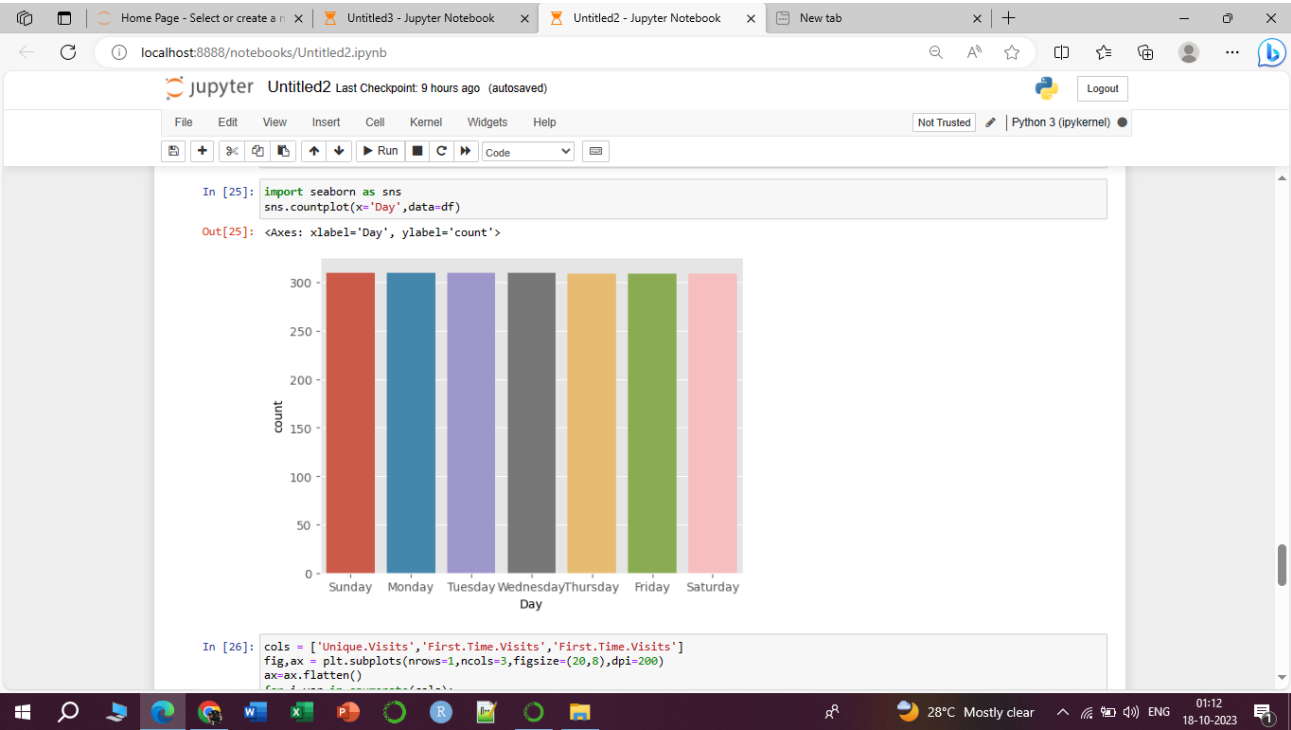
Value Counts of each Insights of the data set content and Object Integration of the data set



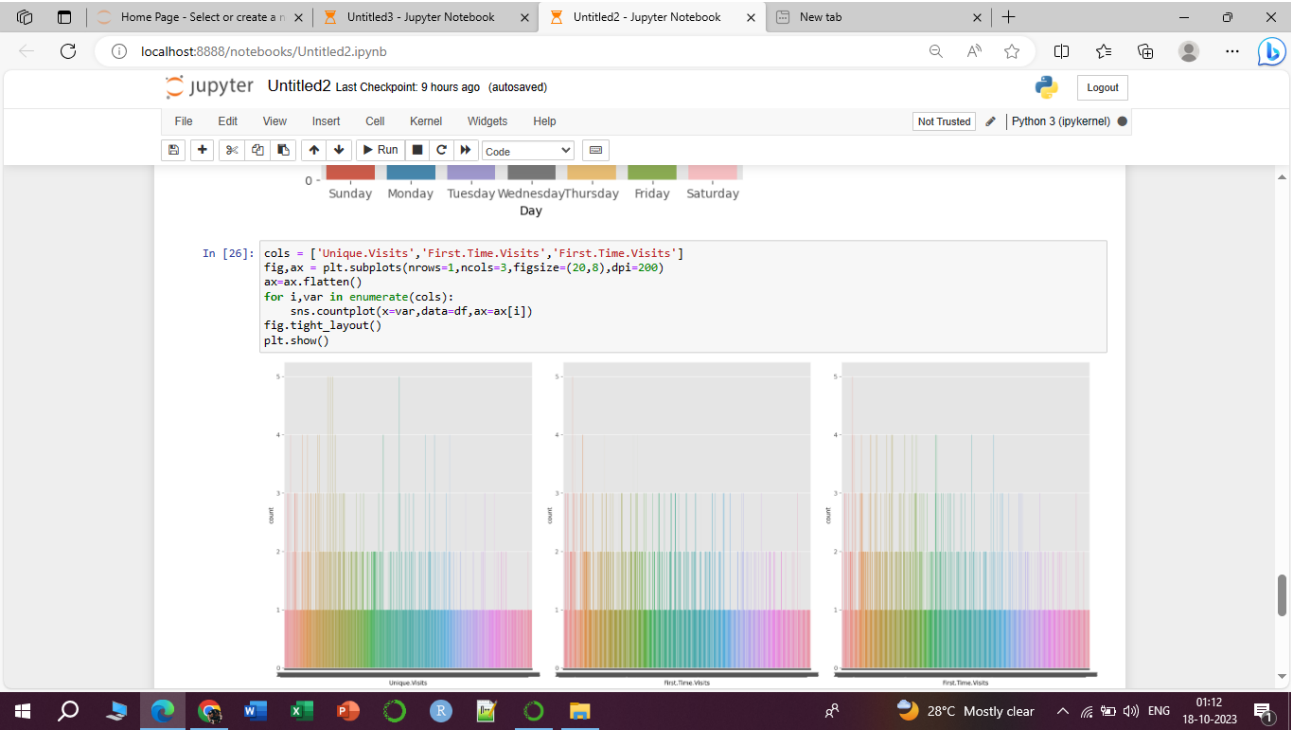
Again pointing out the data set with the help of Pandas Library.

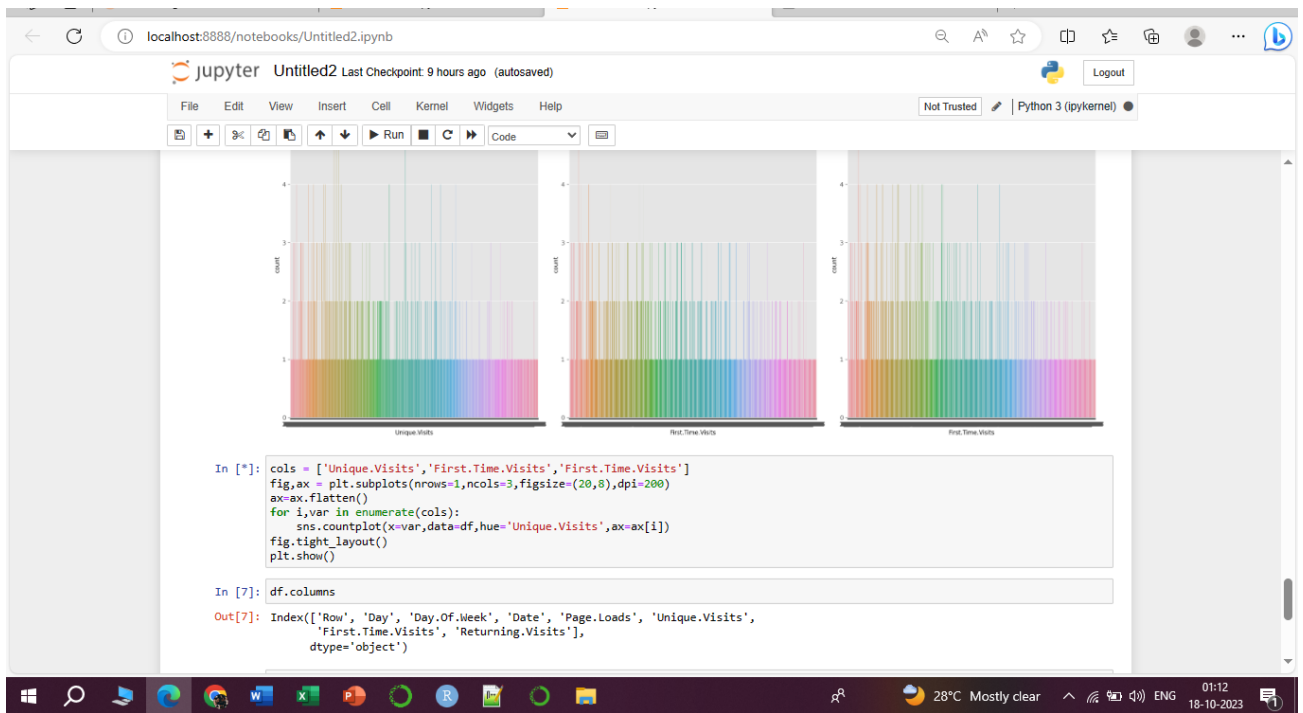


Listing the Number of Days that had been observed by the data set using Seaborn Library.



Plotting of Three important Stuffs like Unique visitor,First Time Visitor,Returning Visitor.





6.0 conclusion and future process:

Thus in this documentation phase1 we have visualized the given data overall and day wise also we have integrated python in it in further process our team has planned to use ibm cognos tools much more deeper and make a document out of the same