**CS5540 Principles of Bigdata Management**

**Project Phase 2 Report**

**By**

**Murali Krishna Chukka (16272588)**

**Sushma Manne (16271112)**

**Pujitha Koppanathi (16273485)**

**Objective:**

* To store tweets in Spark SQL and run queries on the data to analyse some interesting things.
* Make use of visualization tools to understand data better.

**Environment Setup:**

* We have installed Scala and Spark in Ubuntu and executed queries using Spark SQL.
* We have used Tableau Public software for visualization of the queries.

**Design:**

We have collected twitter data regarding mobile games of around 600 MB. Here in this phase we have done analysis on the collected data using SPARK SQL.

Analysis of data by executing queries

Loading of Jason data into Spark SQL

Collection of Tweets Data

Visualization of data using Tableau.

**Implementation:**

First we have loaded data and then executed queries in Spark SQL . The output data generated is fed to Tableau for visualization.

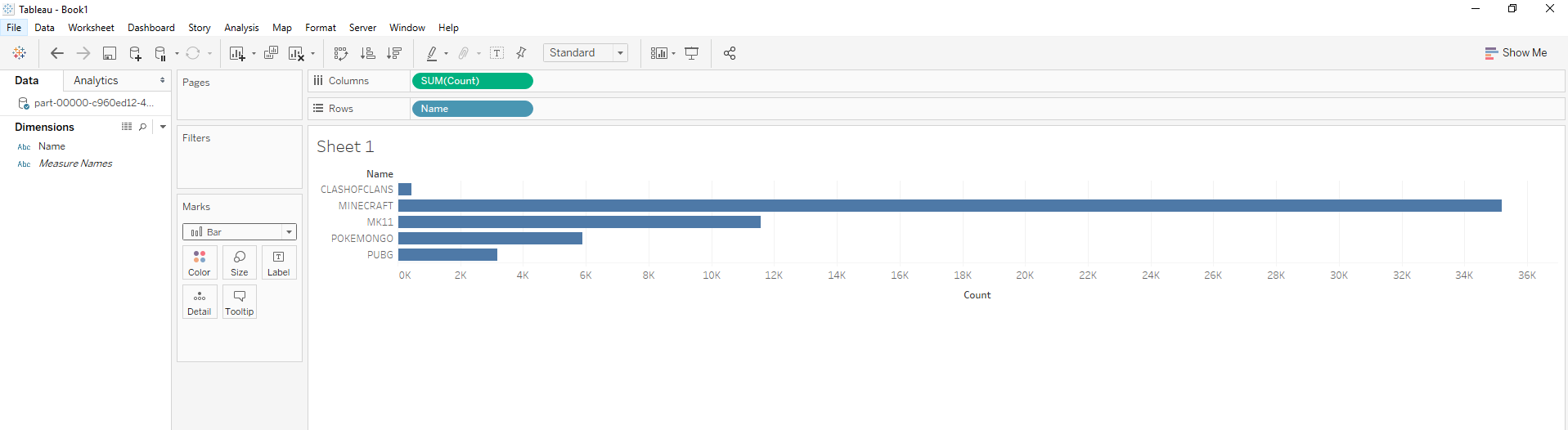
The following are the 10 queries we have done in Spark SQL and their visualizations.

1. Query to fetch Tweets count of each mobile game.

A screenshot of a computer

Description automatically generated

Graph for Query 1:



2.Query to fetch Top 5 locations of each game based on highest tweets count.

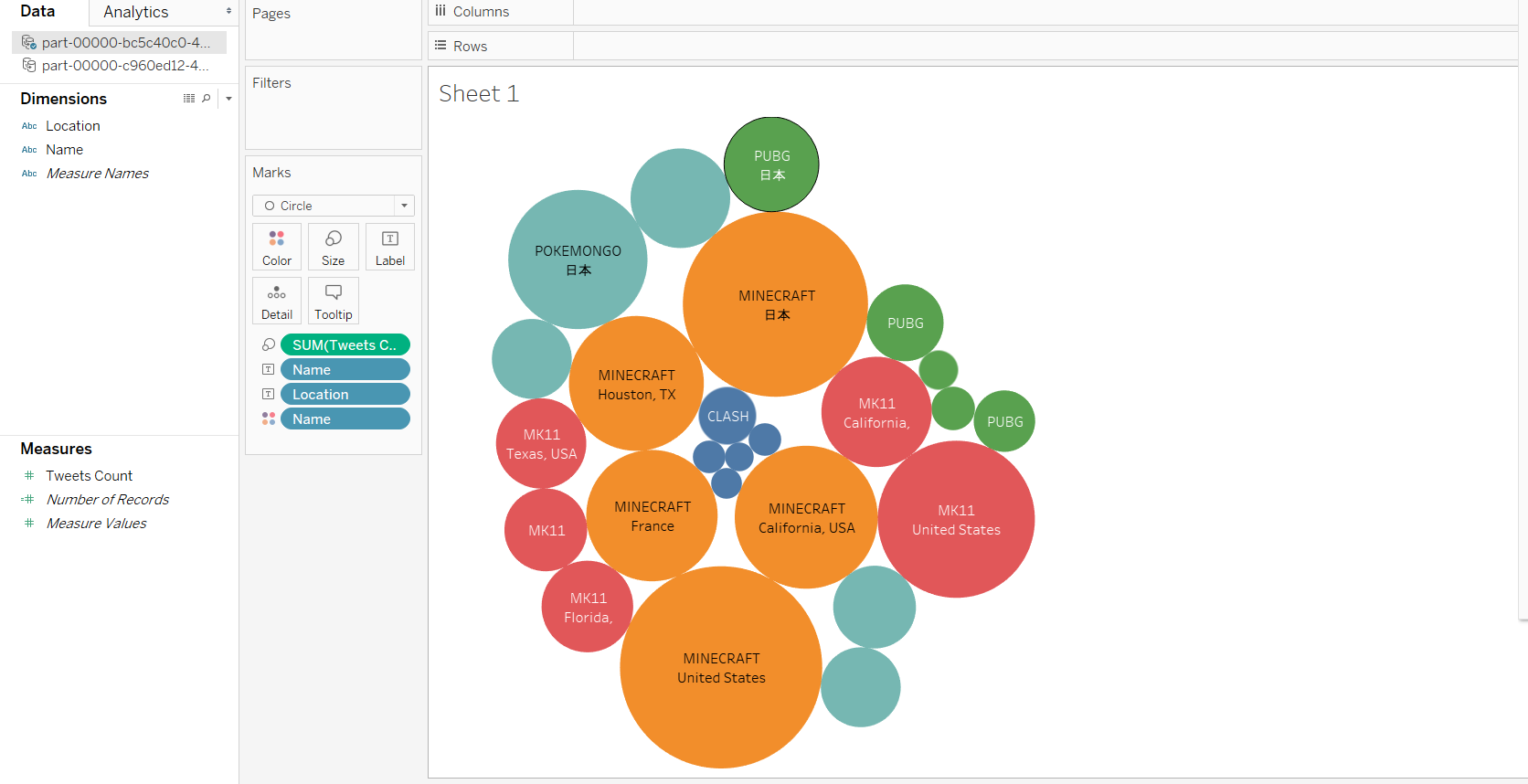
A screenshot of a computer

Description automatically generated

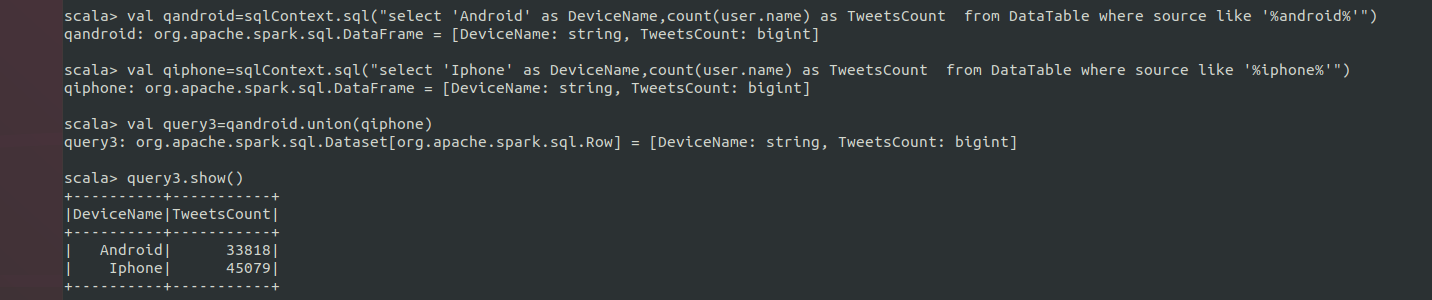
A screenshot of a computer

Description automatically generated

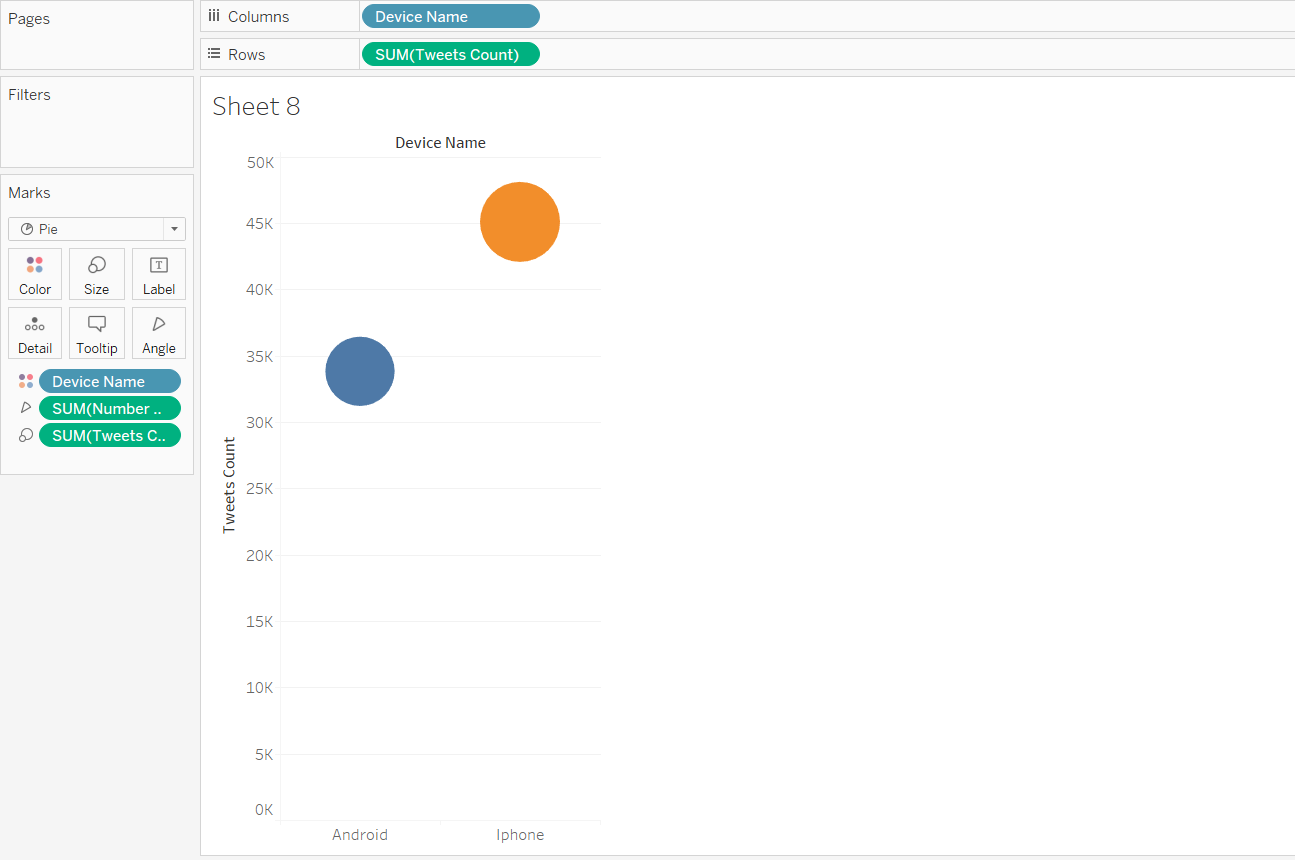
Graph for Query 2:



3.Query to fetch count of Tweeted devices.



Graph for Query 3:

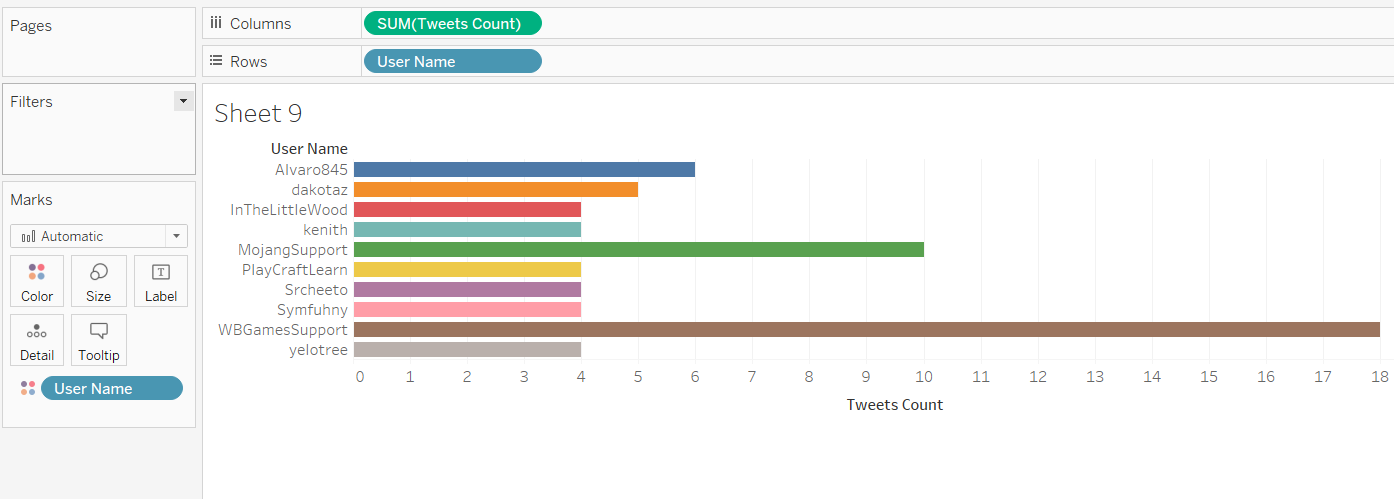


4.Query to fetch top 10 verified users.

A picture containing screenshot

Description automatically generated

Graph for Query 4 :

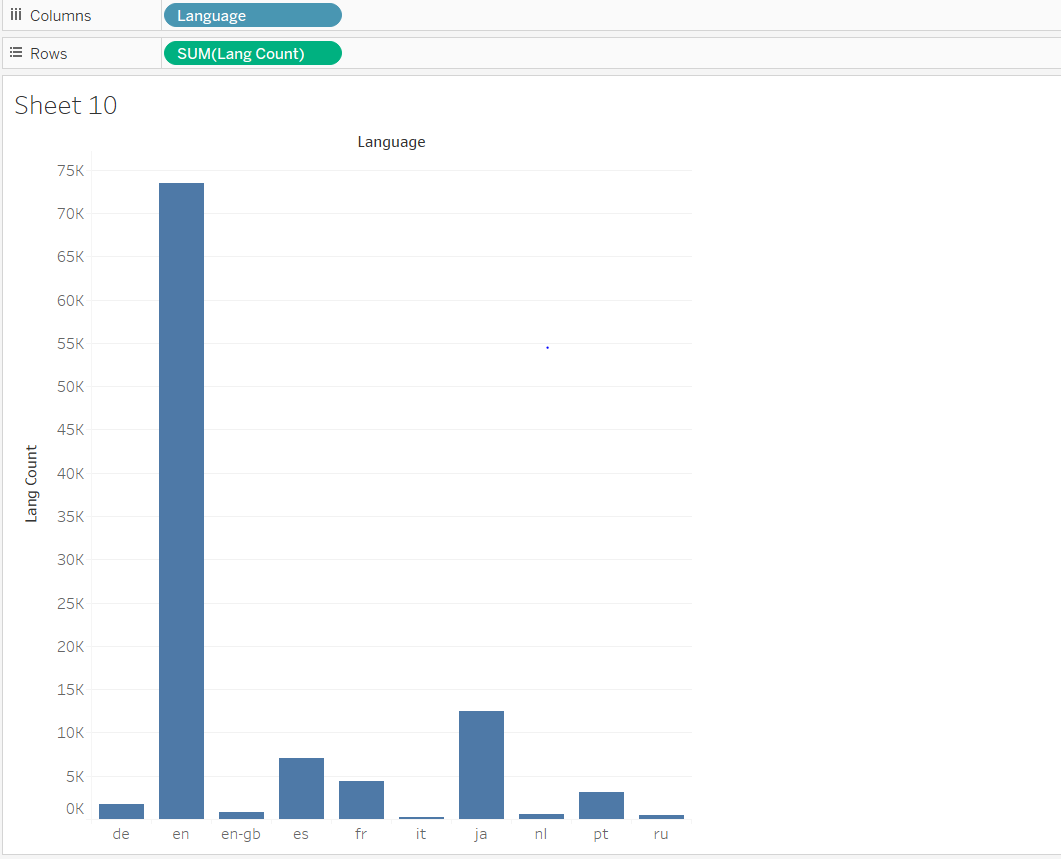


5.Query to fetch top 10 languages used for Tweets:

A close up of a logo

Description automatically generated

Graph for Query 5 :



6.Query to fetch top 10 Followers Count based on Location.

A close up of a logo

Description automatically generated

Graph for Query 6:

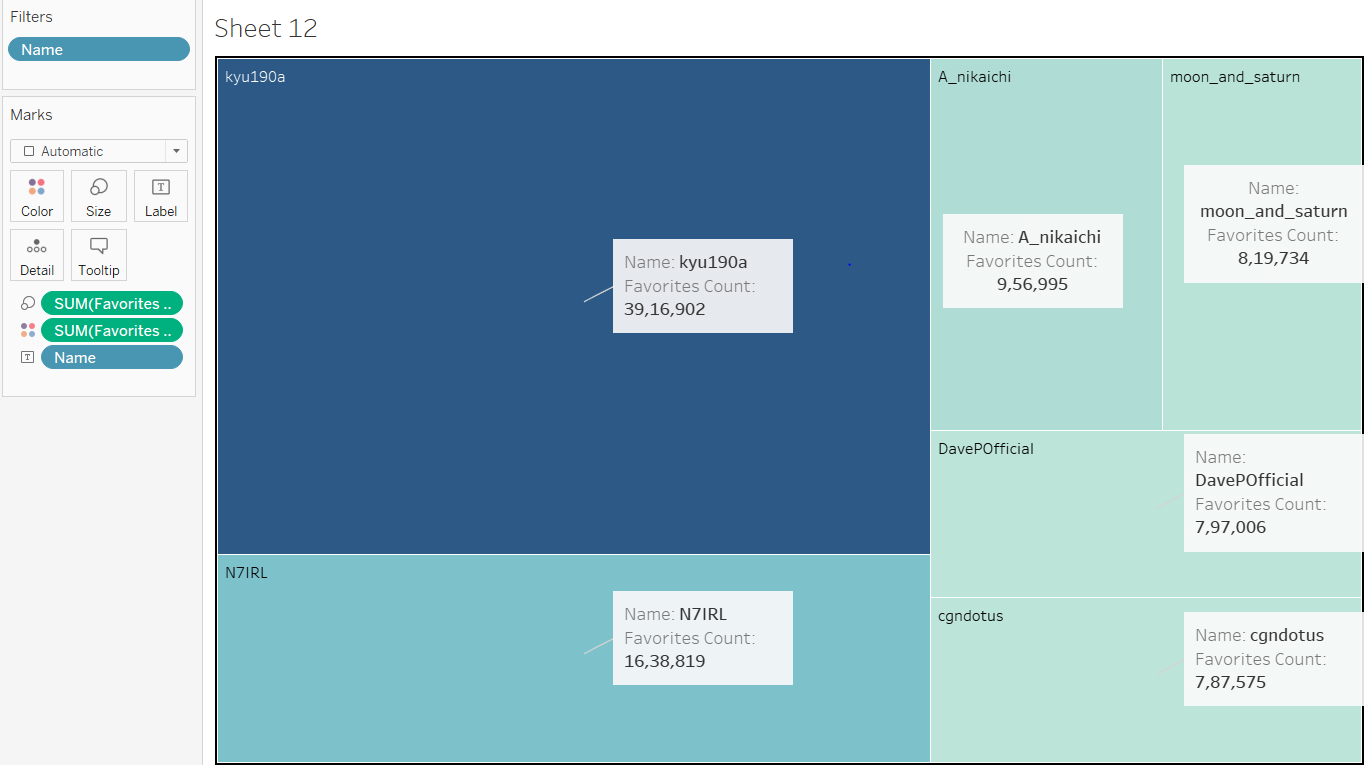


7.Query to fetch top 10 Favorites count.

A close up of a logo

Description automatically generated

Graph for Query 7:

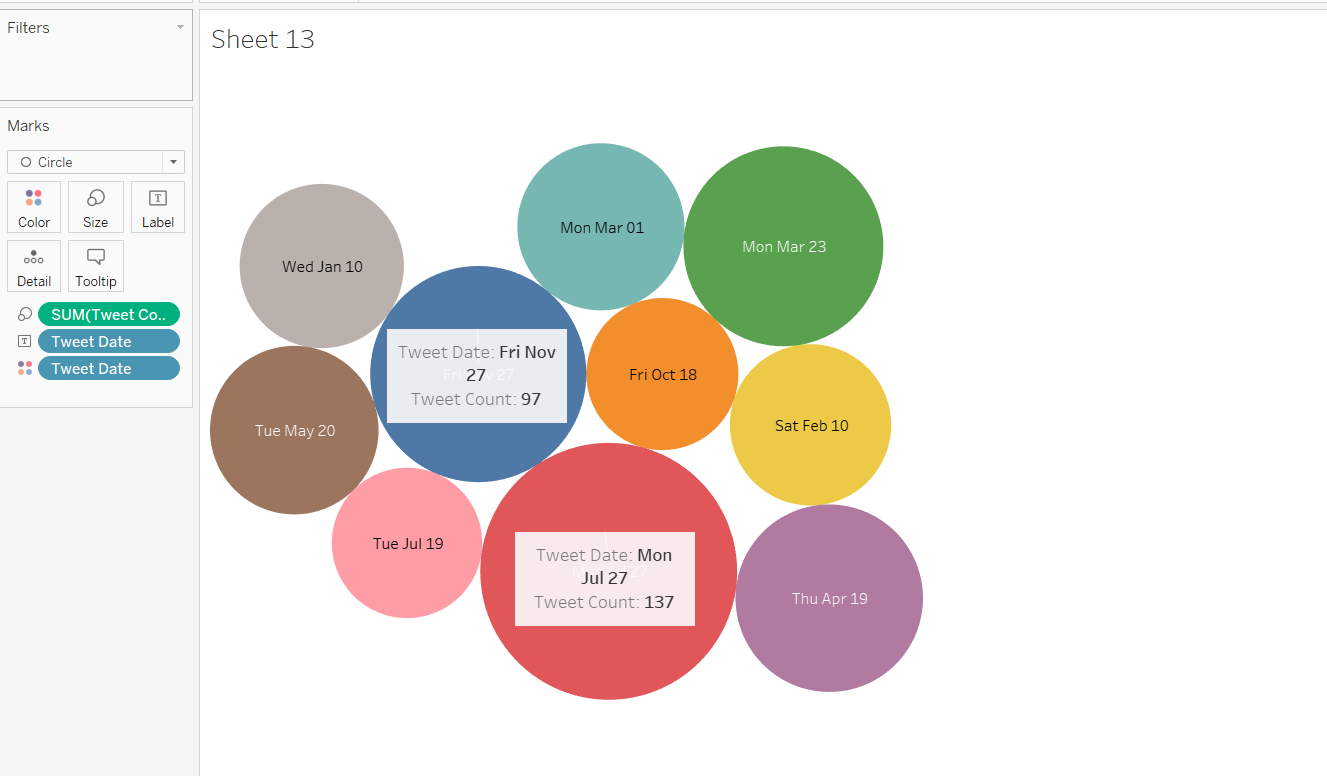


8.Query to fetch top 10 most tweeted dates.

A screenshot of a cell phone

Description automatically generated

Graph for Query 8:



9.Query to fetch highest tweeted string of each game.

A screenshot of a computer

Description automatically generated

Graph for Query 9:

![A screenshot of a cell phone

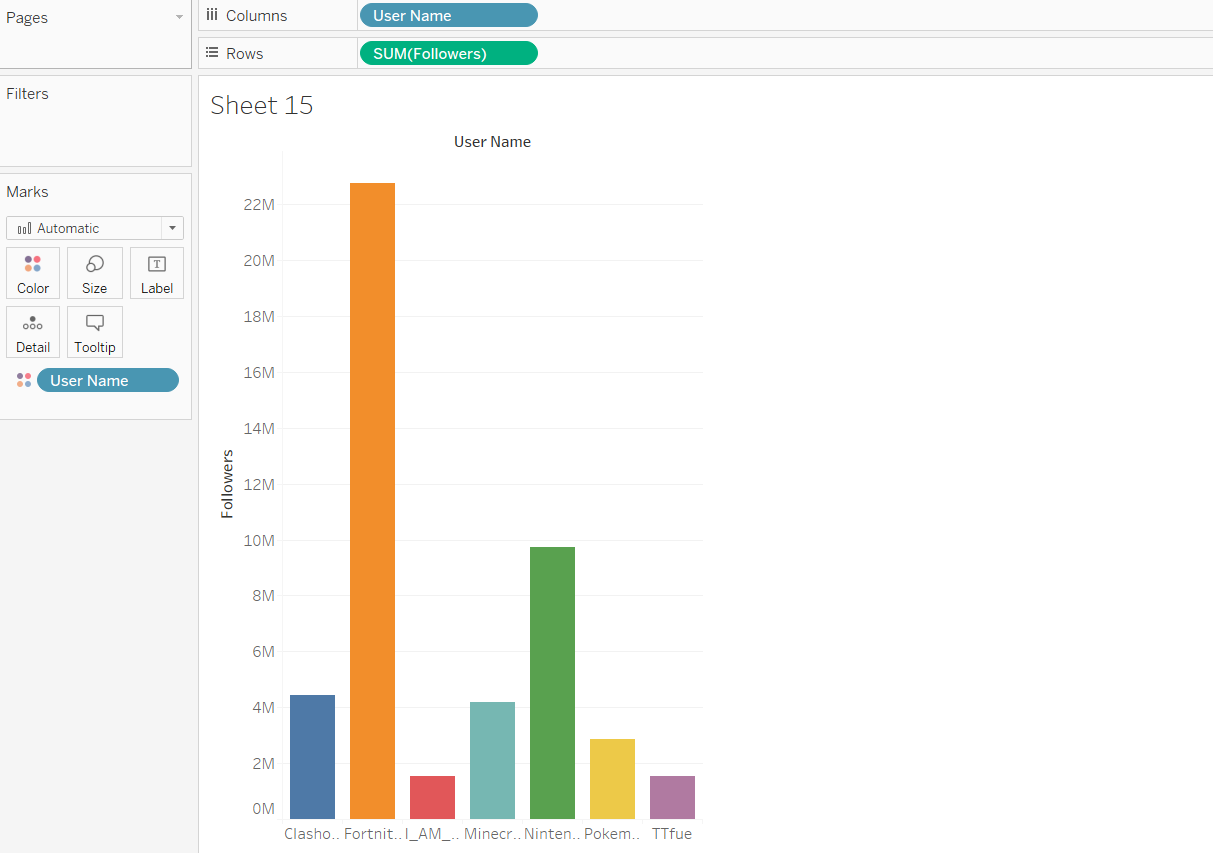
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9vfC4s4IbYqIhZ2RgnaNRhYnlD4aMZJ27AOmMd+lp9BBRRRSGFFFFABRRRQAUUUUAUIuj/APXR/wD0I1JUcXR/+uj/APoRqSgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAo0r/AJA9l/17p/6CKKNK/wCQPZf9e6f+gigC3RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBztFFFAHRUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUIuj/APXR/wD0I1JUcXR/+uj/APoRqSgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAo0r/AJA9l/17p/6CKKNK/wCQPZf9e6f+gigC3RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBztFFFAHRUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUIuj/APXR/wD0I1JUcXR/+uj/APoRqSgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAo0r/AJA9l/17p/6CKKNK/wCQPZf9e6f+gigC3RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBztFFFAHRUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUIuj/APXR/wD0I1JRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUaV/yB7L/AK90/wDQRRRQBbooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA52iiigD//2Q==)

10.Query to fetch top 10 highest followers count.

A screenshot of a cell phone

Description automatically generated

Graph for Query 10 :



**Testing:**

Output Folders that are generated from the queries which are used for visualization.

