

HEALTH AND DIET ANALYSIS

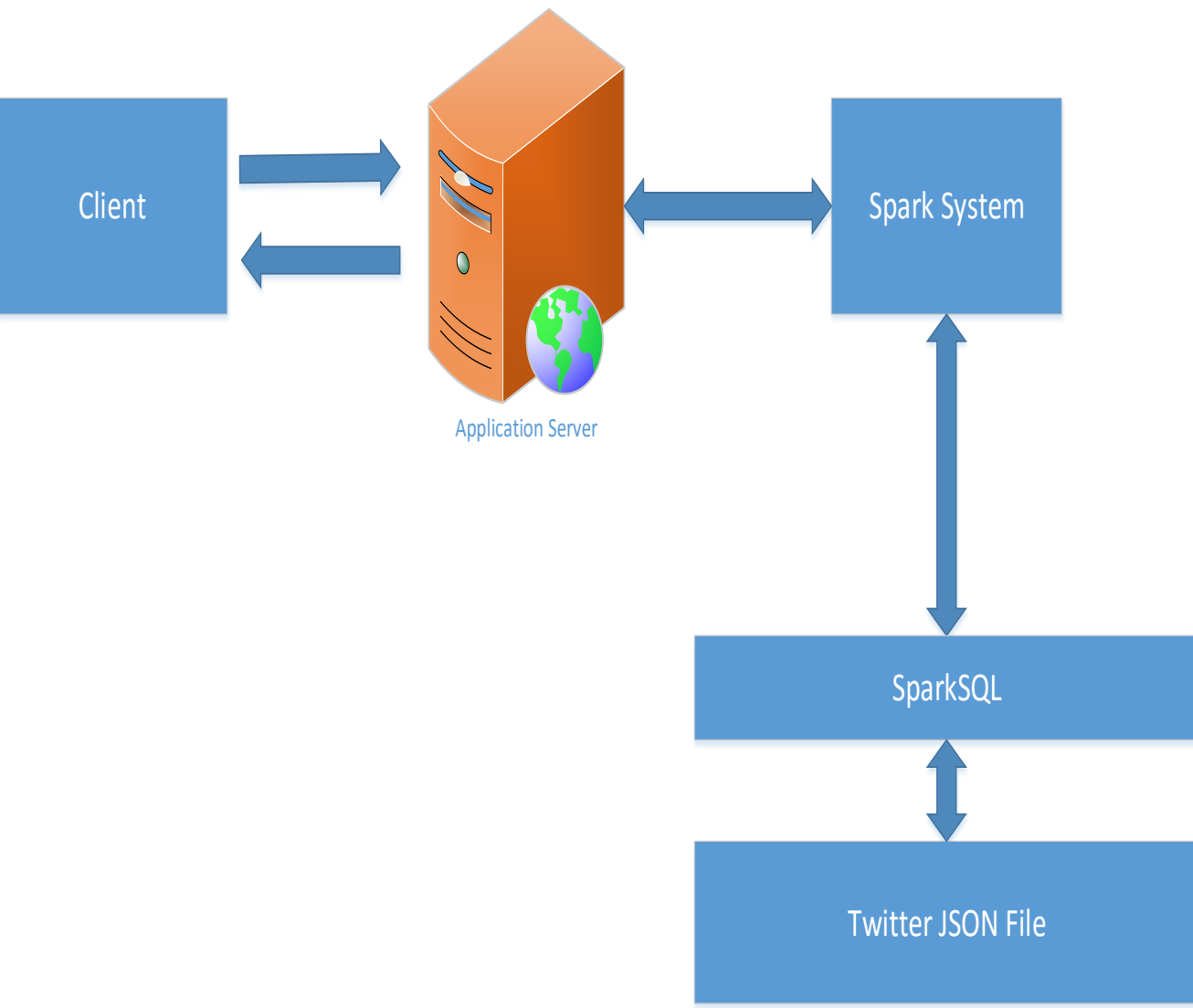
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INTRODUCTION

To visualize the Health patterns across the globe by analyzing twitter data at real time and answers user queries by extracting useful information. Our motive is to analyze unstructured data about health, food habits, hygiene, work outs which is collected from twitter tweets done by users across the world. We have collected more than hundred thousand of data and stored in JSON format, where we can read that data in a structured format which can be read by humans easily.

ARCHITECTURE



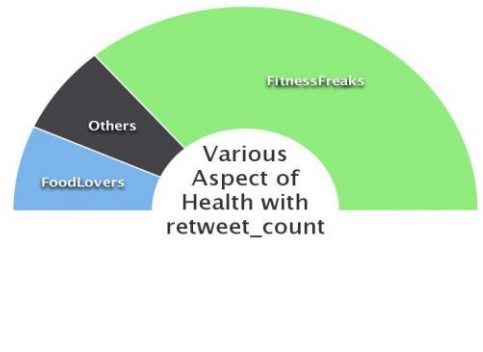
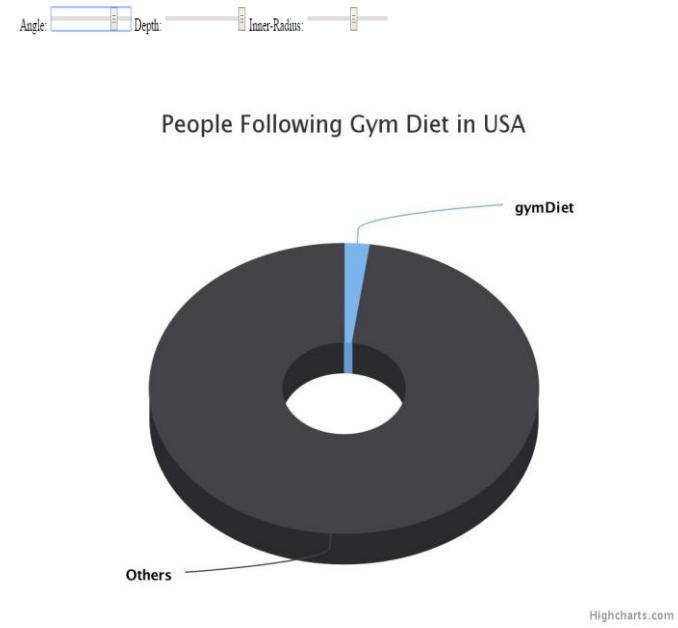
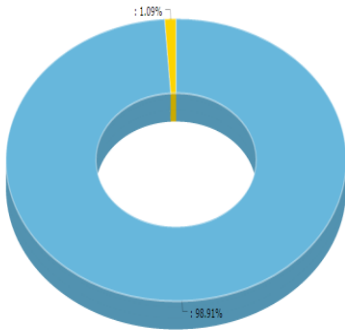
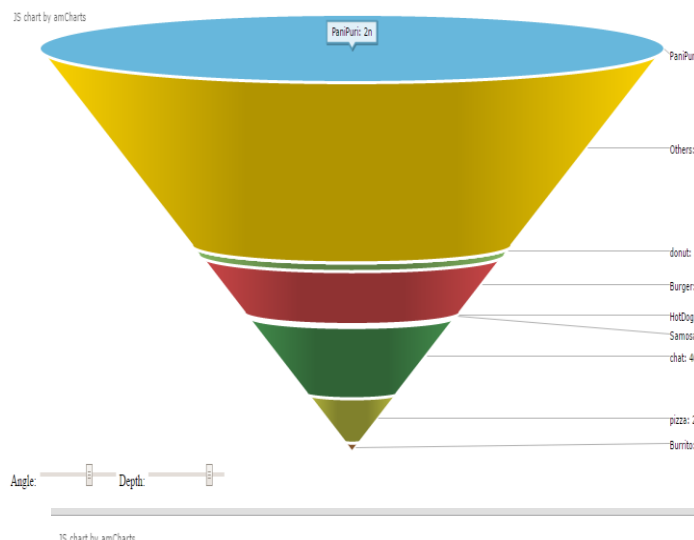
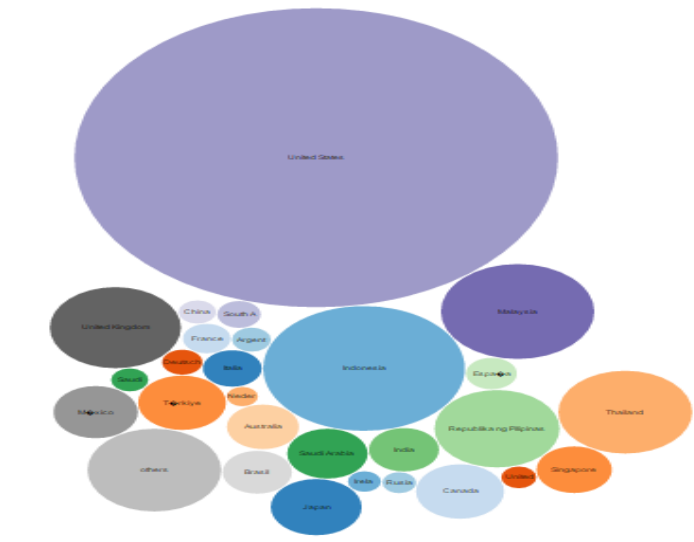
PURPOSE

Our goal is to analyze what are the eating habits of people across the world, which food they are interested in most, how many people prefer vegan food. People interested in different cuisines in United States. Interest of people in street food in United States and other parts of the world.

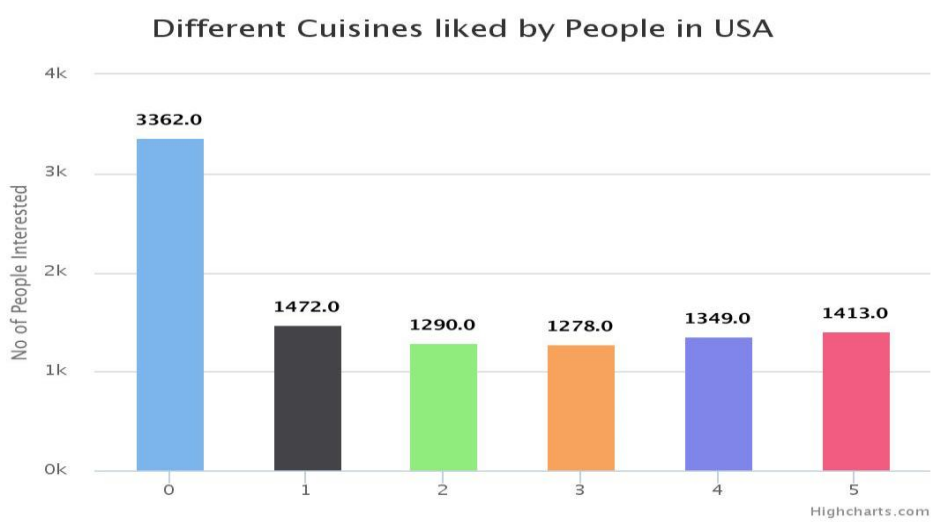
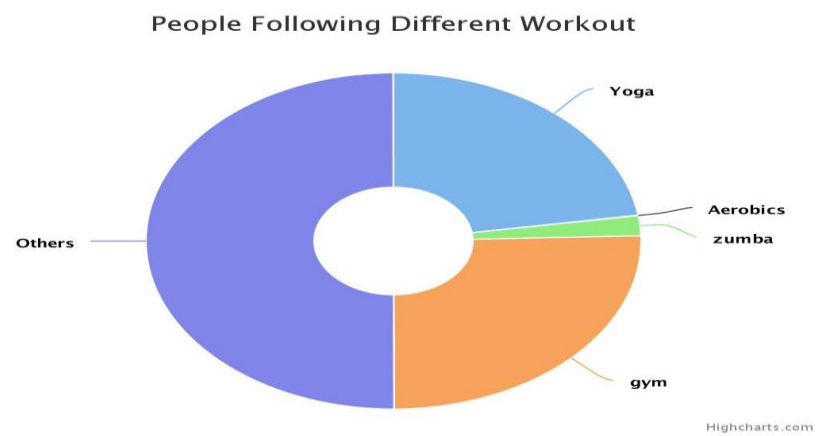
QUERIES

- No of people across the world talking about Health.**
select place.country from tweets;
- Popular words tweeted by people about health and diet.**
select text from tweets where place.country='United States';
- Different kind of street food around the world liked by people.**
select text from tweets where text LIKE '%chat%' or text LIKE '%chat%' or text LIKE '%pizza%' or text LIKE '%samosa%' or text LIKE '%vada pav%' or text LIKE '%pani puri%' or text LIKE '%hot dog%' or text LIKE '%burger%' or text LIKE '%burrito%' or text LIKE '%donut%';
- Indian food in United States liked by people.**
select text from tweets where place.country='United States';
select text from texts where text LIKE '%food%' or text LIKE '%Food%' or text LIKE '%eat%' or text LIKE '%Eat%';
- Gym Diet followed by people in United States.**
select text from tweets where place.country='United States';
- Tweets retweeted by people categorized by various parameters.**
select text from tweets where quoted_status.retweet_count>0 and text LIKE '%foodie%' or text LIKE '%protein%' or text LIKE '%salads%' or text LIKE '%pizza%' or text LIKE '%burger%' or text LIKE '%gym%' or text LIKE '%health%' or text LIKE '%diet%' or text LIKE '%fitness%' or text LIKE '%exercise%' or text LIKE '%body building%' or text LIKE '%weight loss%' or text LIKE '%workout%';
- Different workouts followed by people.**
select text from tweets where text LIKE '%gym%' or text LIKE '%Gym%' or text LIKE '%yoga%' or text LIKE '%Yoga%' or text LIKE '%swimming%' or text LIKE '%Swimming%' or text LIKE '%yog%' or text LIKE '%Yog%' or text LIKE '%Aerobics%' or text LIKE '%aerobics%' or text LIKE '%zumba%';
- What are the different cuisines liked by people.**
select text from tweets where text LIKE '%indian%' or text LIKE '%Indian%' or text LIKE '%thai%' or text LIKE '%japanese%' or text LIKE '%mexican%' or text LIKE '%Mexican%' or text LIKE '%italian%' or text LIKE '%Italian%' or text LIKE '%chinese%' or text LIKE '%Chinese%' or text LIKE '%american%' or text LIKE '%American%';

VISUALIZATION



VISUALIZATION



REFERENCES

<https://spark.apache.org/docs/1.2.1/api/java/org/apache/spark/api/java/JavaPairRDD.html>
<https://spark.apache.org/docs/0.7.2/api/core/spark/api/java/JavaPairRDD.html>
<http://www.highcharts.com/demo/3d-pie-donut>
<http://www.highcharts.com/demo/pie-semi-circle>
<http://www.highcharts.com/demo/column-drilldown>
<http://bl.ocks.org/mg1075/8bb2b55d2c5cf5667b01>
<https://www.amcharts.com/demos/3d-funnel-chart/>

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