

MAT259

Data Visualization

Concept-

The goal of this was to understand the emergence of Entrepreneurship and individuals businesses post recession. Forbes in 2013 concluded with a study that U.S Entrepreneurship has reached a record high in 2013 since 1999. A whopping 43 percent of Americans believe there are good opportunities for entrepreneurship, up by more than 20 percent since 2011 and the highest level recorded in the history of the study, called the Global Entrepreneurship Monitor U.S. report. Read more here.

In this project, I plan to peruse the topic of Entrepreneurship in the Seattle public library database and the new york times examining how much exactly are the key figures in recent years, specially post-recession and pre-recession. Plus, if the model can be used to predict future financial crisis.

Query-

```
SELECT title, date(cout),count(*) FROM spl2.inraw where title like "%entrepreneur%"  
AND year(cout) >='2007' group by year(cout);
```

Processing TIme: 60 seconds

```
SELECT year(cout) as year, month(cout) as month, hour(cout) as hour, count(*) as count  
FROM spl2.inraw where (title like "%entrepreneur%" OR title like "%self business%" OR  
title like "%own business%") AND year(cout) >='2006' group by month(cout),year(cout),  
hour(cout) order by year(cout), month(cout), hour(cout);
```

```
SELECT title, date(cout),count(*) FROM spl2.inraw where title like "%entrepreneur%"  
AND year(cout) <='2007' group by year(cout);
```

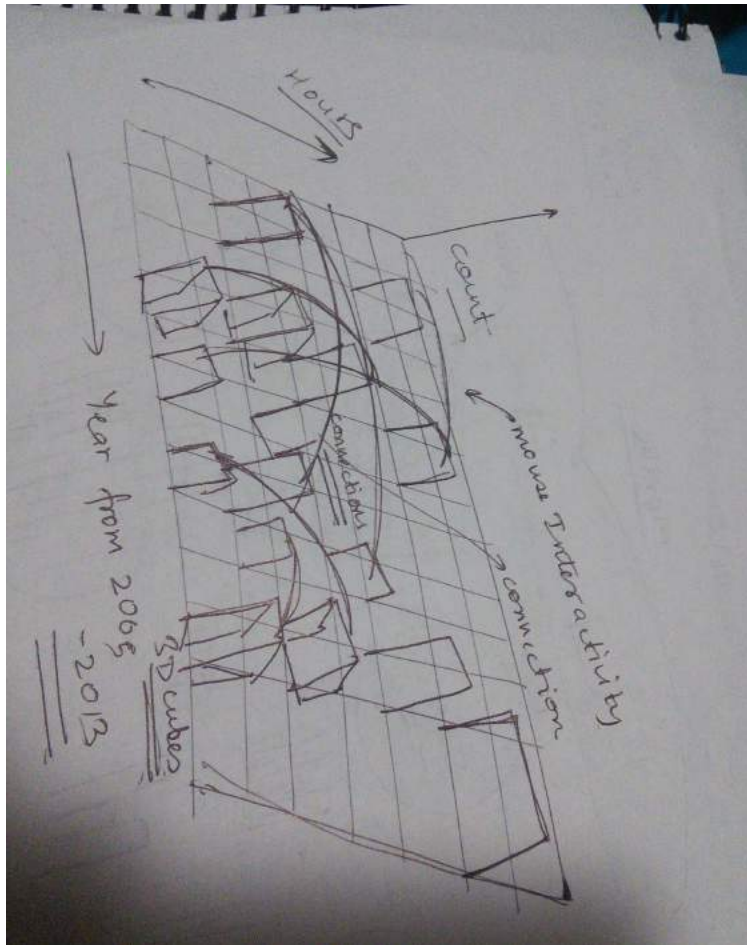
Processing TIme: 78 seconds

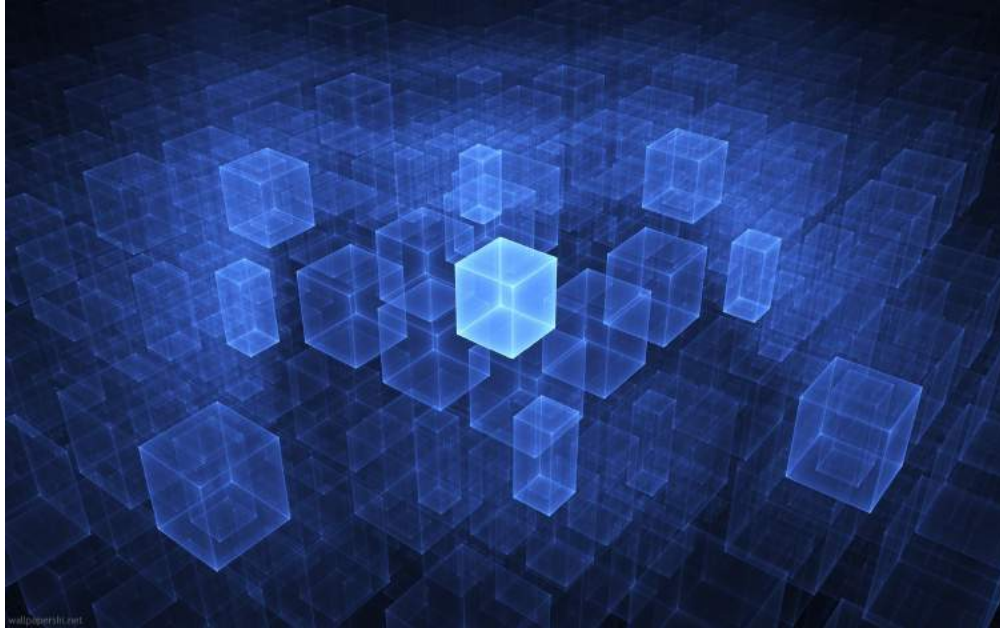
```
SELECT title, date(cout),count(*) FROM spl2.inraw where title like  
"%entrepreneurship%" AND year(cout) >='2005' group by year(cout);
```

Visual design-

The visual aspects of this 3d visualization would be referenced by each cube(each cube representing each year) and put in 3d space like an array of marching bands. The user can interact with each cube and select any one cube to view that year's transactions and overview of entrepreneurship in that year. Almost consuming the idea of 'cube inside a cube inside a cube...'

Doodle-





Attached are the csv files.