Data Visualization

Assignment: 4

Team DV34

Feedback loop found:

Our data set is from business dynamics which had more than 20 columns providing details of job and firm creation and during assignment 3 we prepared many visualization charts and got the overall view of US jobs from year 1978 to 2018. We also sub divided our data set state wise and created a new CSV file , this remodelling of data helped us to get the results like which state has high job creation rate or which state is loosing its firm ,which year had been the growth symbol . Then we used these inferences to draw charts in assignment 4 using power BI tools and falling charts in Fig 1 and Fig 2 shows that our inferences was correct as year 2009 shows falling of jobs and destruction of firms in every state. It also shows that the growth rate in the states was propositional to each other.

list of tasks performed on dataset:

1)We have got 3 inferences from the previous task performed on our data set where we established relationship between states and their net job creation rate and job distraction rate and also got the states name list in descending order of job creation rate.

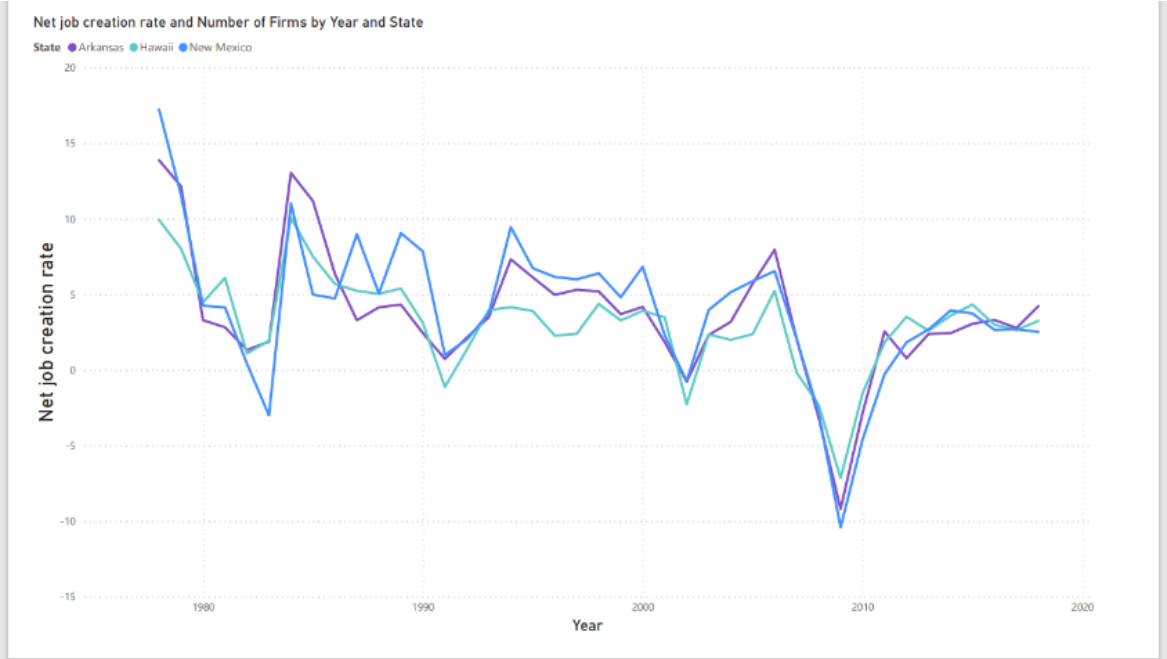

Fig 1

Here we have a remodelled data set from previously found results and visualization where state Akanksha, Alaska, New Mexico and Hawaii has highest rate and using this outcome we performed the task and plot the job creation rate and years on 2 d graph which shows in Fig 1.

Task 2: We also got the result as 1978 was the year of highest job creation while 2009 had minimum jobs.

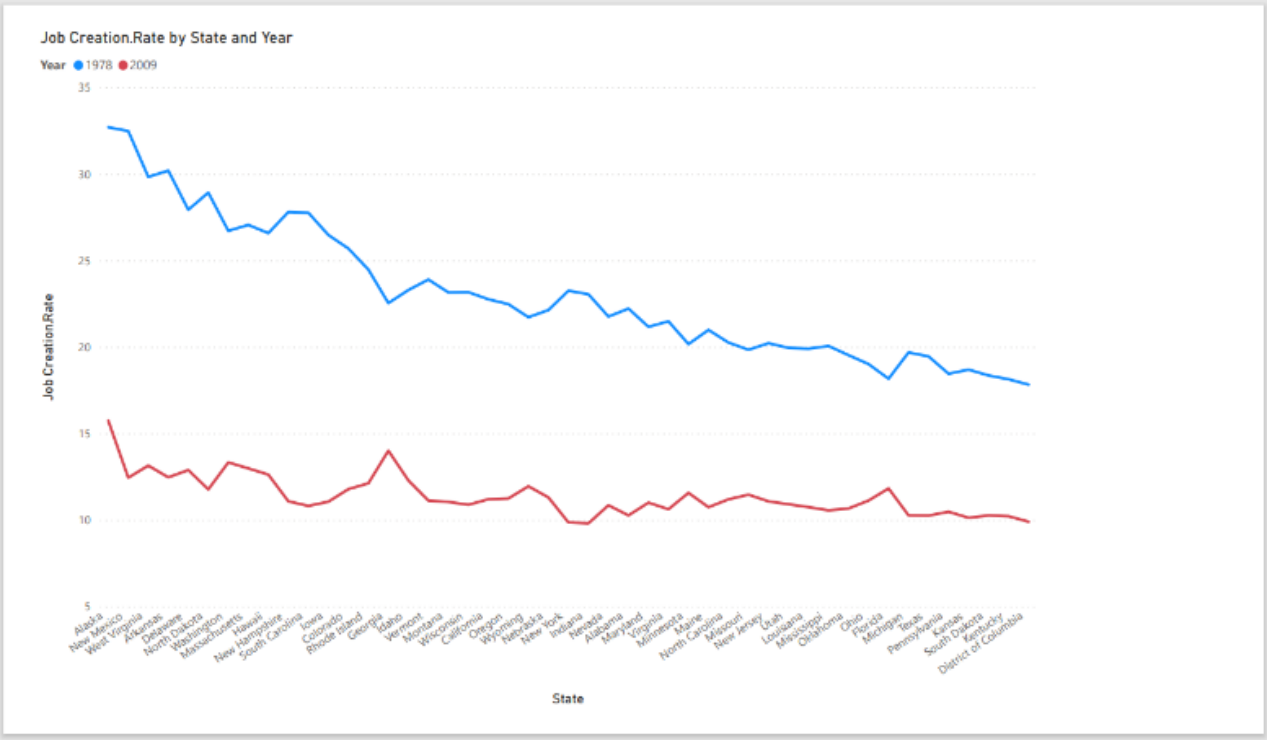

Fig 2

Task 3: Geographical representation(Fig 3) shows that the region Alaska which has high jobs creation rate and high job destruction rate so since we are plotting net job mean, it shows average net job mean, and the cities that have light blue colour show less net job mean, and the cites that have dark blue colour show high net job mean.

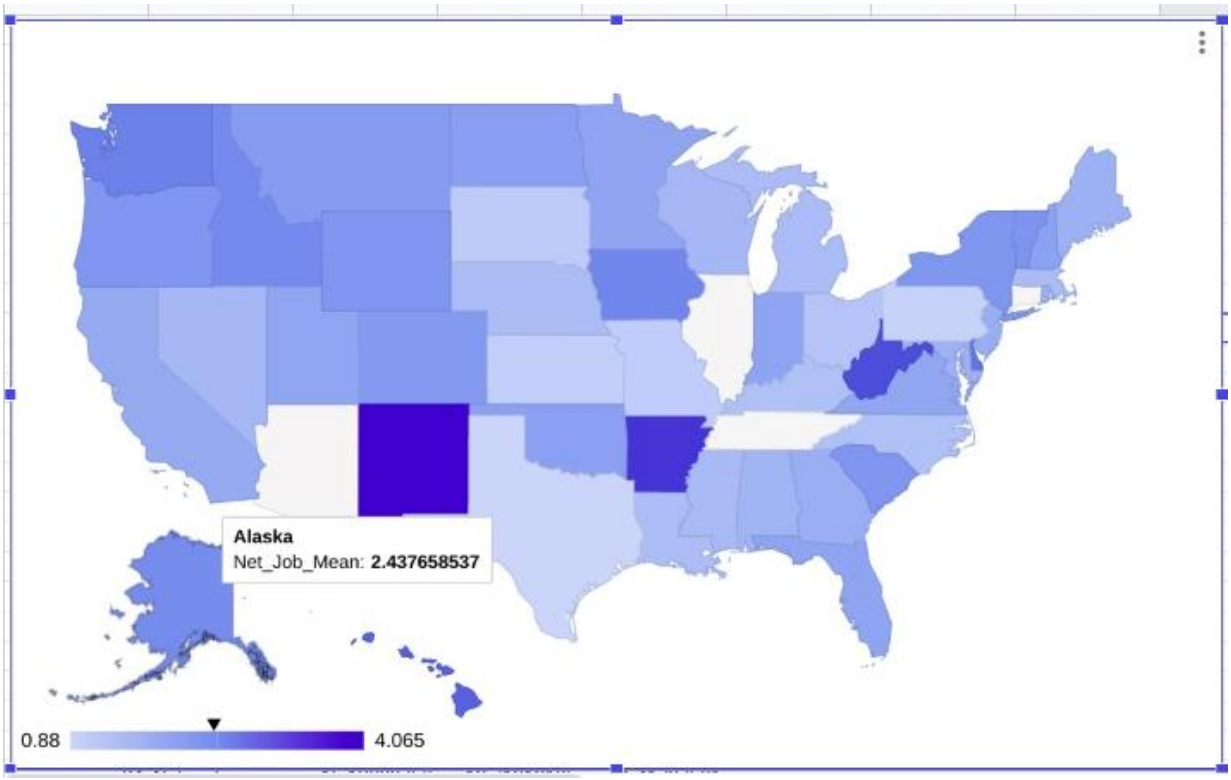

Fig 3

Tools used:

1) **Power BI** is an interactive data visualization software product developed by Microsoft with a primary focus on business intelligence. It is part of the Microsoft Power Platform. Power BI is a collection of software services, apps, and connectors that work together to turn unrelated sources of data into coherent, visually immersive, and interactive insights. Data may be input by reading directly from a database, webpage, or structured files such as spreadsheets, CSV, XML, and JSON.

2) **Google Charts** is a pure JavaScript based charting library meant to enhance web applications by adding interactive charting capability. Google Charts provides wide variety of charts. For example, line charts, spline charts, area charts, bar charts, pie charts and so on.

Work Done:

Pragya Khare: Learn power BI tool and also prepared charts for assignment 4.

Nikunj Khakhkhar: Learn Google charts and wrote script to get geo chart of US.