Assigment 3 (Spring 2024)
DA 215: DataBase Lab

Instructor: Dr Chiranjib Sur
Email: chiranjib@iitg.ac.in
Deadline: March 19, 2024

Total Marks: 100 marks

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1. Consider the following JavaScript library: Walmart's growth - Walmart outlet appearing in the USA with time.

    Link for Walmart's growth

    U.S. Chronic Disease Indicators Dataset Link

    Note : Convert the state information (equivalent to district) to geolocations from Google and use any distance metric of your choice.

    (a) The existing set has a dataset that helps in identifying the growth of new Walmart outlets in different parts of the USA. Repeat the task on your local machine and note down the locations of the functions that do the task. Write a report on this.

    (b) Can you repeat the above work, but now you are aggregating the average location with the new Walmart outlet and the nearest one and plotting the new location with a circle? Write a report on this.

    (c) Now consider the dataset "U.S. Chronic Disease Indicators Dataset Link." Solve the visualization problem and plot different diseases individually on the JavaScript library. The number of disease cases may be proportionate to the size of the circle in the plot. Write a report on this.

    (d) Now consider the dataset "U.S. Chronic Disease Indicators Dataset Link." Solve the problem of visualization and plot summation of different diseases on the JavaScript library. Write a report on this.

    (e) There are parameters like StratificationCategoryID1 and StratificationCategory1. Use them in a meaningful way for the above task.