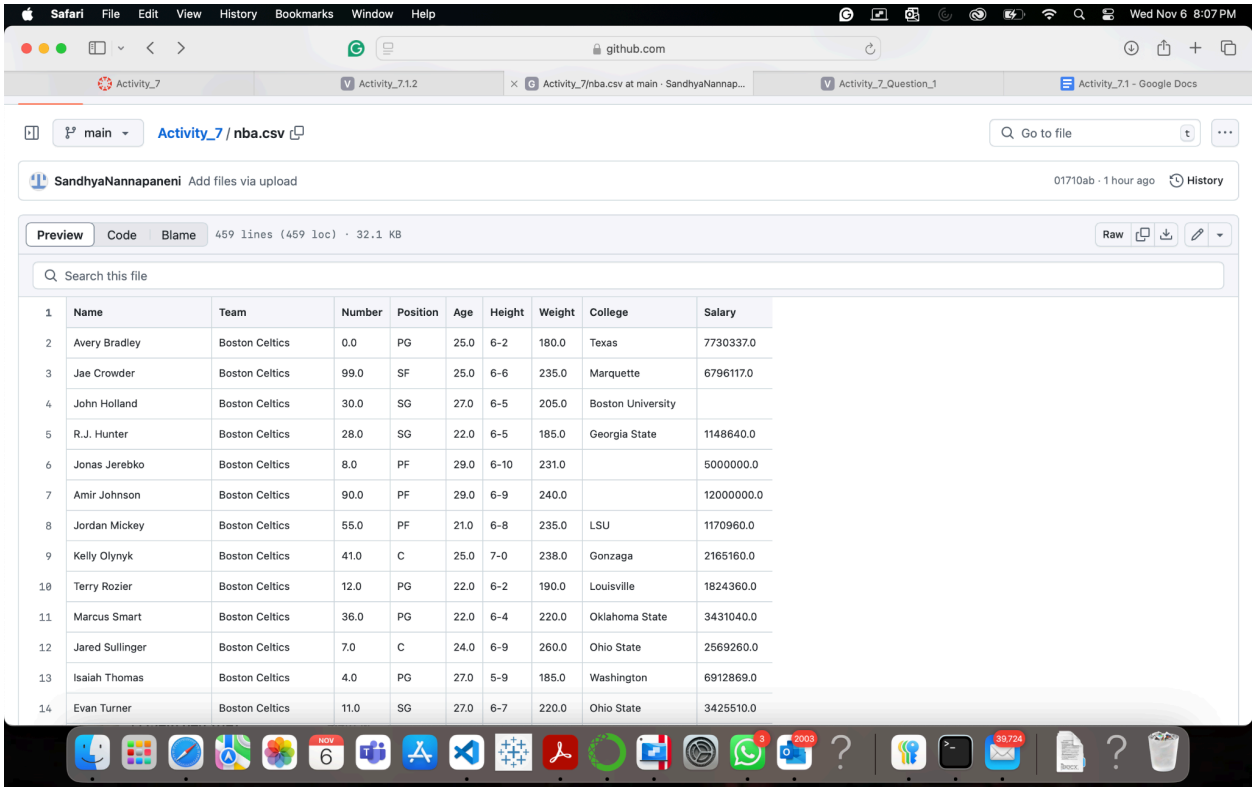
D3.JS
Question - 1

- **PIECHART:**

Creating the gist, I added our data and made the gist public and the gist was created successfully.

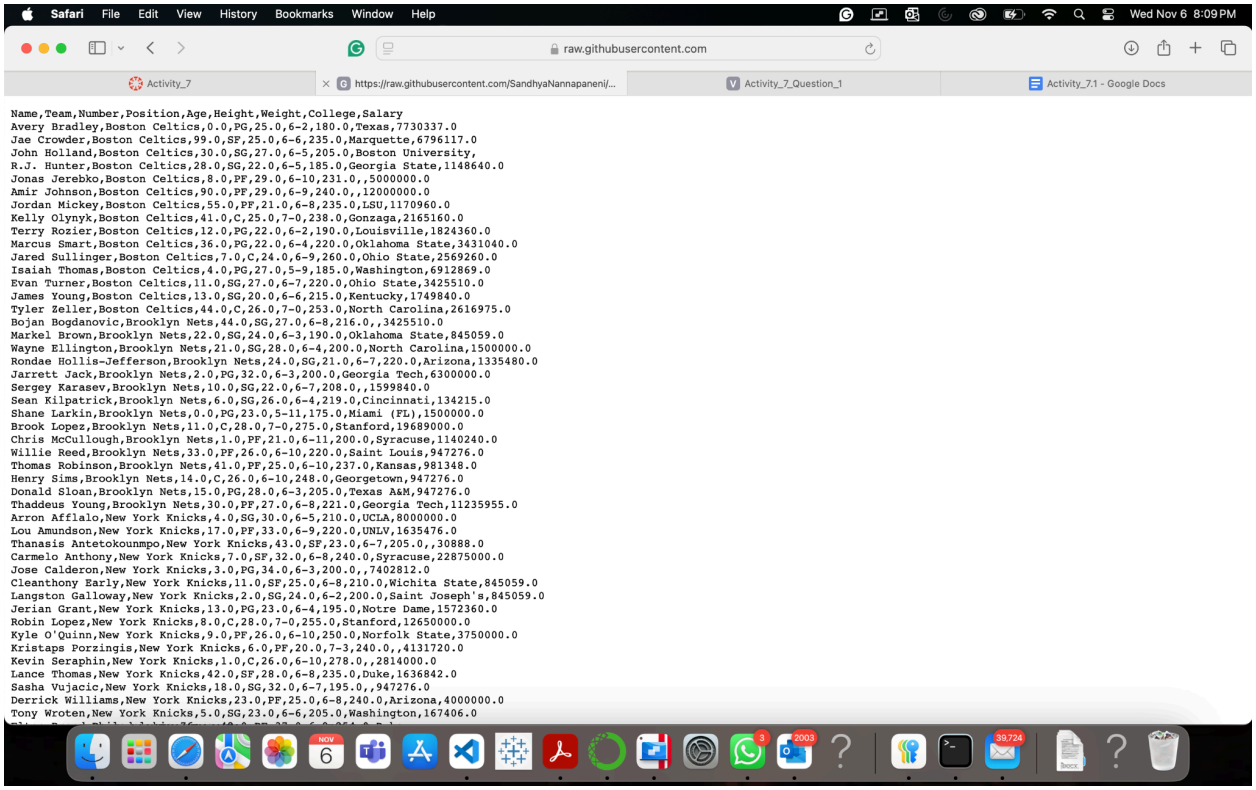
https://github.com/SandhyaNannapaneni/Activity_7/blob/main/nba.csv



	Name	Team	Number	Position	Age	Height	Weight	College	Salary
2	Avery Bradley	Boston Celtics	0.0	PG	25.0	6-2	180.0	Texas	7730337.0
3	Jae Crowder	Boston Celtics	99.0	SF	25.0	6-6	235.0	Marquette	6796117.0
4	John Holland	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston University	
5	R.J. Hunter	Boston Celtics	28.0	SG	22.0	6-5	185.0	Georgia State	1148640.0
6	Jonas Jerebko	Boston Celtics	8.0	PF	29.0	6-10	231.0		5000000.0
7	Amir Johnson	Boston Celtics	90.0	PF	29.0	6-9	240.0		12000000.0
8	Jordan Mickey	Boston Celtics	55.0	PF	21.0	6-8	235.0	LSU	1170960.0
9	Kelly Olynyk	Boston Celtics	41.0	C	25.0	7-0	238.0	Gonzaga	2165160.0
10	Terry Rozier	Boston Celtics	12.0	PG	22.0	6-2	190.0	Louisville	1824360.0
11	Marcus Smart	Boston Celtics	36.0	PG	22.0	6-4	220.0	Oklahoma State	3431040.0
12	Jared Sullinger	Boston Celtics	7.0	C	24.0	6-9	260.0	Ohio State	2569260.0
13	Isaiah Thomas	Boston Celtics	4.0	PG	27.0	5-9	185.0	Washington	6912869.0
14	Evan Turner	Boston Celtics	11.0	SG	27.0	6-7	220.0	Ohio State	3425510.0

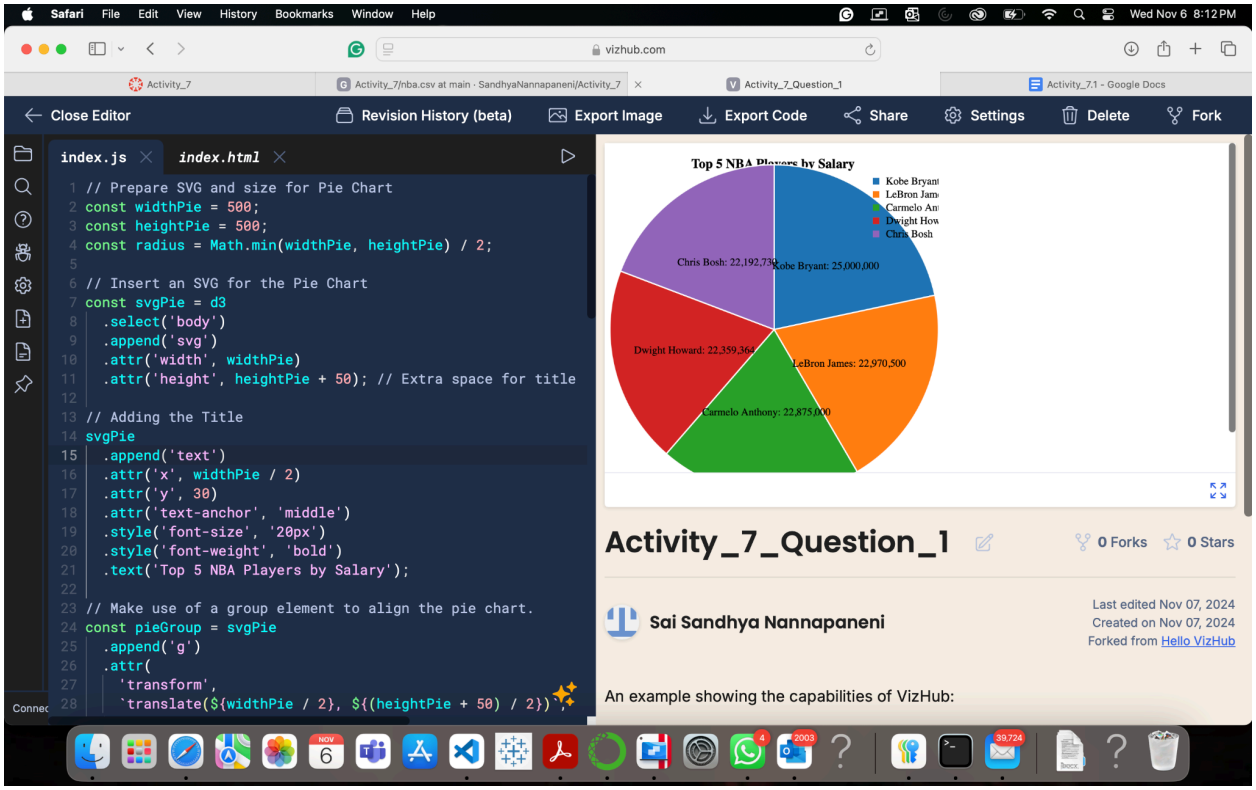
Clicking on the raw button then the file data will be displayed.

https://raw.githubusercontent.com/SandhyaNannapaneni/Activity_7/refs/heads/main/nba.csv



Now we are opening the Vizhub and then for the piechart we have successfully created the fork, designed the pie chart using the D3.js, and created the code in index.js and index.html files.

https://vizhub.com/SandhyaNannapaneni/5fdb064f8170483599533e2b92599e0b?edit=files&file=index.js&tabs=index.js%7Eindex.html



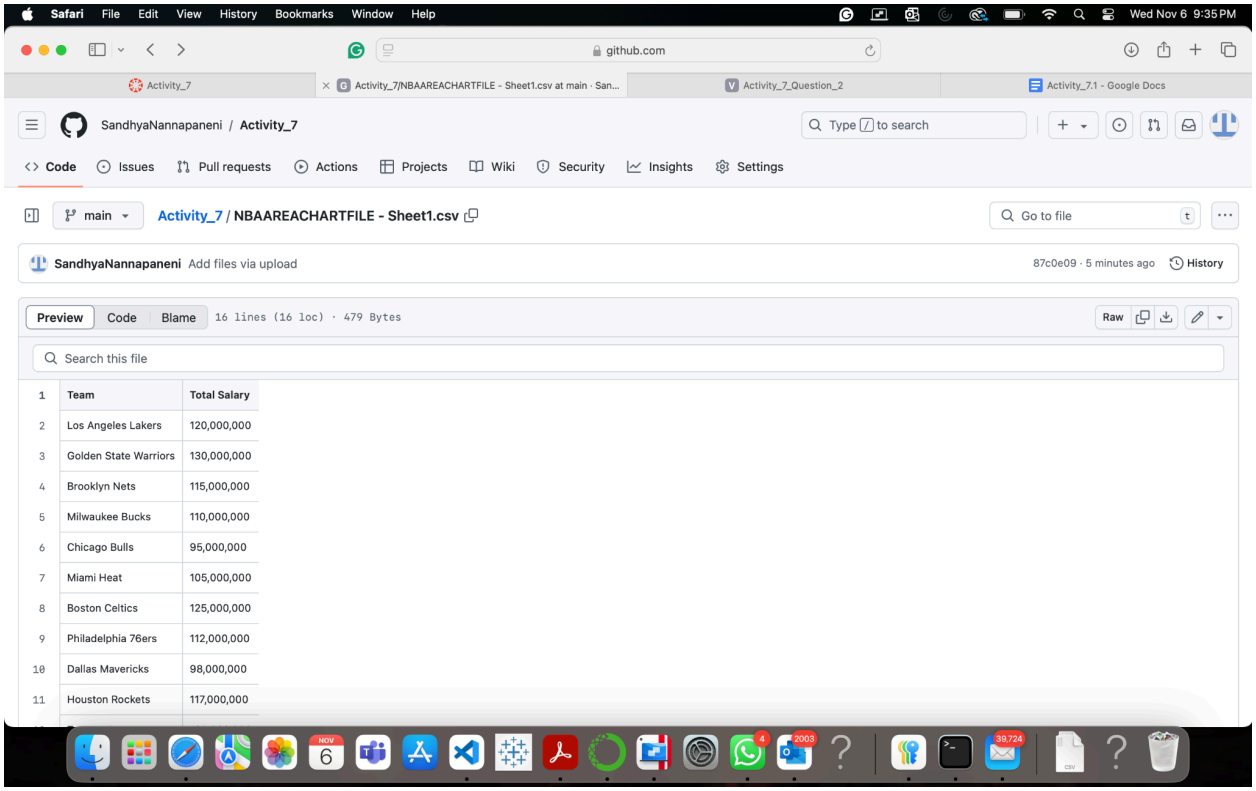
I'm using D3.js to create a pie chart that will represent the first five National Basketball Association top players concerning their earnings. The information is channeled using graphic and numerical data about the NBA players' title, team, position they play, their names, how much they earn, and so on. The description is especially about the name and price, no other info: it filters the table displaying the first 5 most paid athletes. Uses a centered design where the chart is drawn with the help of an SVG canvas and a `g` element in the body. To aid in the chart description, I built a header over the pie in different colors. The `pie` layout is calculated slices based on salaries and colors each slice differently. Additional formatting includes a player name and an income amount, where each segment will have a label and each player will have a color coding in the legend. This makes the chart quick and easy to understand.

Question 2

AREA CHART

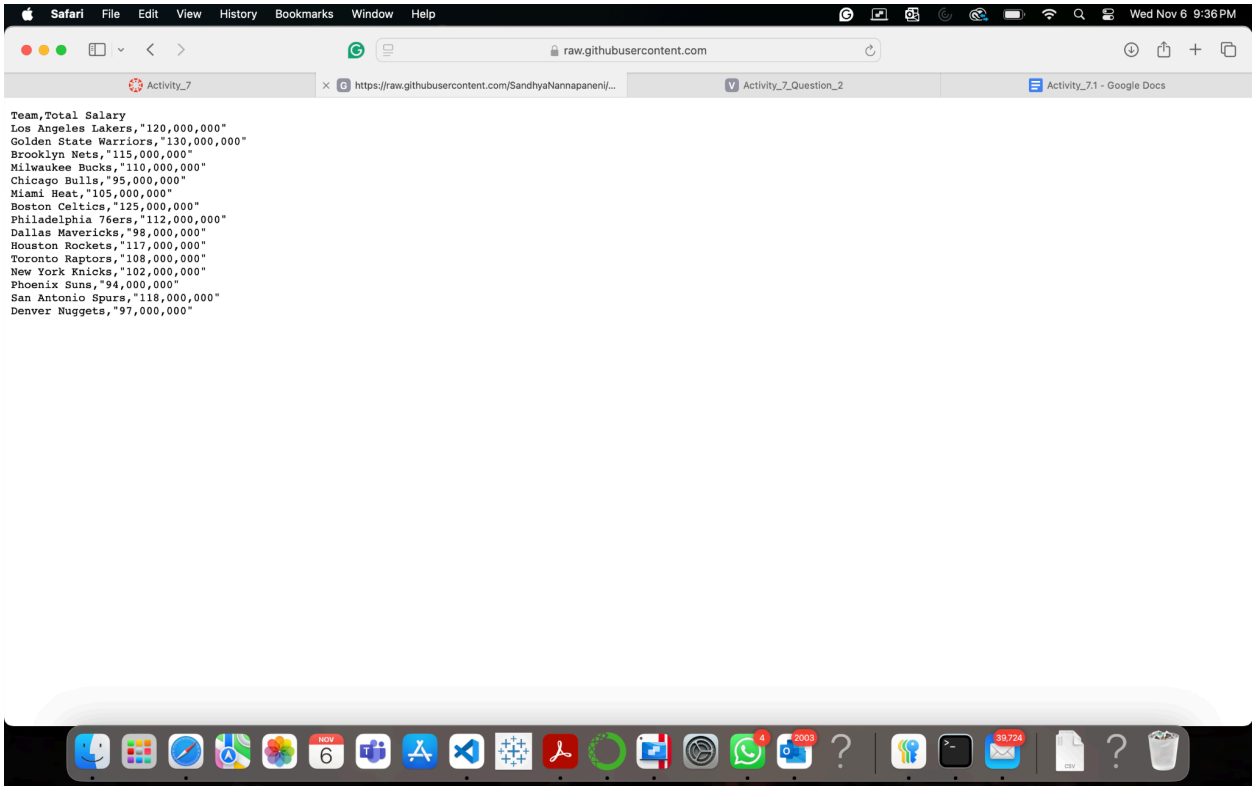
Creating the gist, I added our data and made the gist public and the gist was created successfully.

https://github.com/SandhyaNannapaneni/Activity_7/blob/main/NBAAREACHARTFILE%20-%20Sheet1.csv



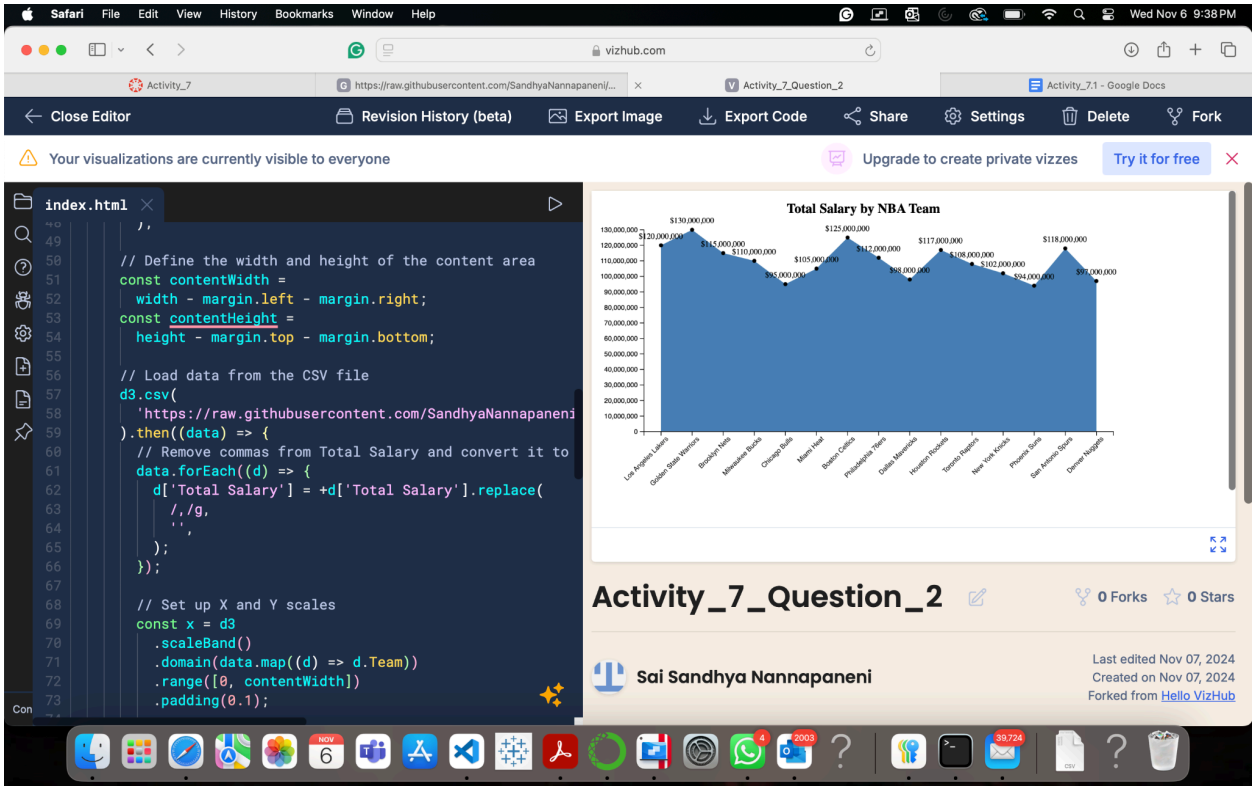
Now clicking on the raw button then it displays like below

https://raw.githubusercontent.com/SandhyaNannapaneni/Activity_7/refs/heads/main/NBAAREACHARTFILE%20-%20Sheet1.csv



Now we are opening the Vizhub, and then for the area chart, we have successfully created the fork, designed the area chart using D3.js, and created the code in the index.html file.

https://vizhub.com/SandhyaNannapaneni/d6ab70a132464ac38e9c15d0febd9a3a?edit=files&file=index.html



The data provided for an area chart, which can be found on GitHub, includes a summary of the Total Earnings that each NBA team had to pay, in columns where there are Team and Total Earnings. On a row basis, they, however, represent a team and the `Total Earnings` column demonstrates the total remunerations of every player in the dollars for This team. This data proves to be very helpful in the study of NBA team salaries and helps in making decisions on how resources should be allocated. When it is time to get the data, create a drop-down link on GitHub, download the file as a CSV format, save it in a repository, then push the changes, and get the URL link of the Raw to be incorporated into your D3.js code.

The area chart graphically presents the Total Earnings of the NBA Team using the provided data. While each particular team is shown on the X-axis, the corresponding salary is shown on the Y-axis, allowing one to display the diversity of expenditure on different teams. The area below the curve does a better job of highlighting pay discrepancies, displaying leading users as peaks and laggards as rather shrunk areas. This map allows for an examination of the cost of players in the NBA and pinpoints the aforementioned highly resource-consuming teams easily and allows viewers to grasp how funds are spread around the league in simple terms.