Exam – Questions

For the exam development, you need to open the file "dv.txt" that you would find in the exam folder.

1. How many rows of information do you have?

2. Rename the columns with the names "Agency, Site, Pp_in, Kind" and print an image of the first 5 records of the DataFrame; remember to keep the dates as the index.

3. Which are the minimum and maximum date in the records?

4. How many nan records of precipitation are there in the DataFrame? Remember to force the conversion to numeric

5. Which is the date of index 88?

6. What is the minimum, maximum, quantile 25%, and quantile 75% in the DataFrame?

7. What is the minimum, maximum, quantile 25%, and quantile 75% in the DataFrame if we keep all the records of precipitation greater than 1?

8. How many precipitation records are greater than 1.39 in?

9. Create a DataFrame with the cumulative summation of the yearly values, which is the year with lower and higher cumulative precipitations? Your response must have the year and the record of precipitation in mm.

10. Print a bar graph of the yearly cumulative values of precipitation, add labels to the axis and a title to the figure

11. Print a histogram that contains all the records, add labels, and a title to the image.