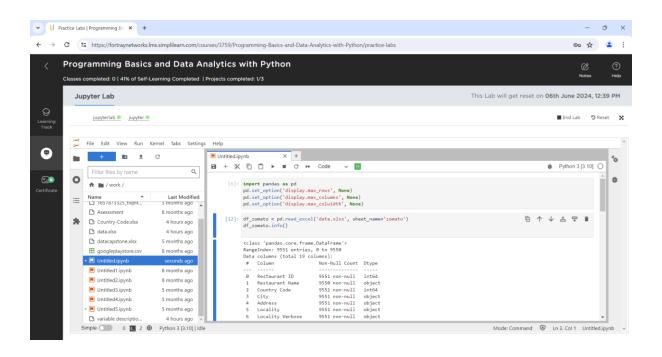
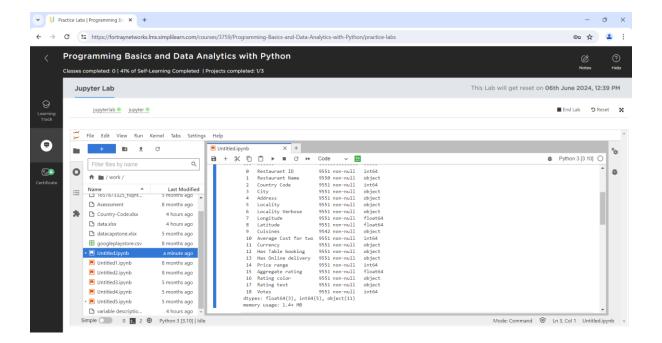
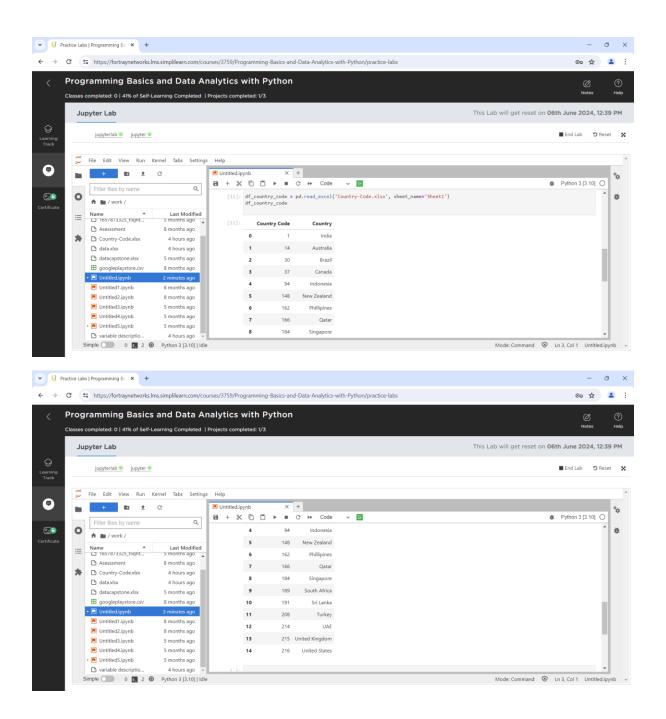
Data Preliminary analysis:

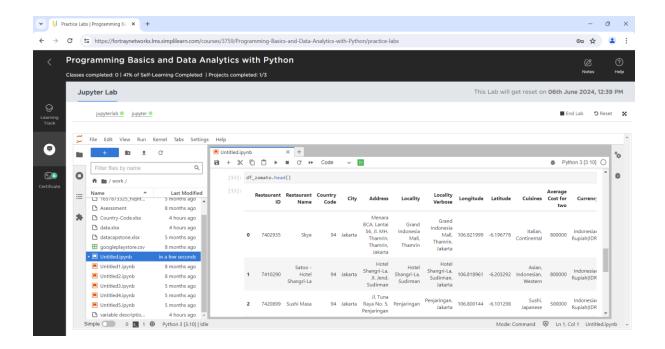
Perform preliminary data inspection and report the findings as the structure of the data, missing values,

duplicates cleaning variable names etc.

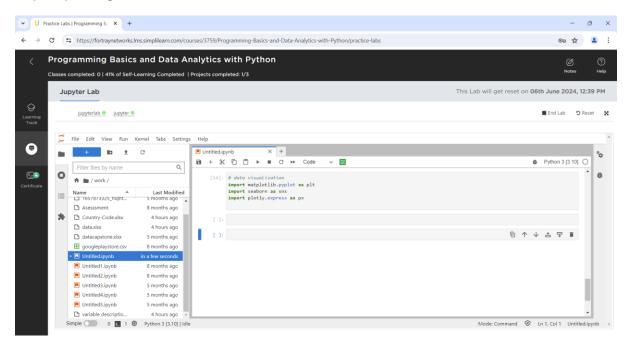




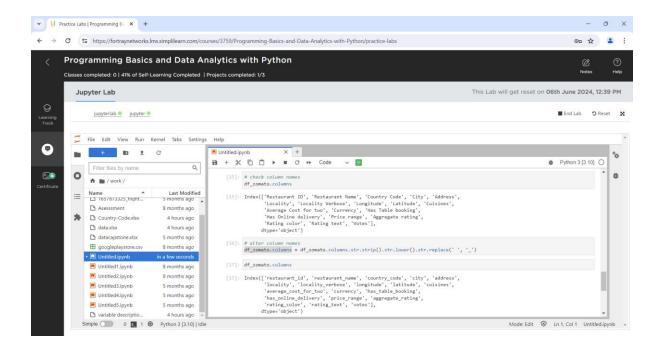




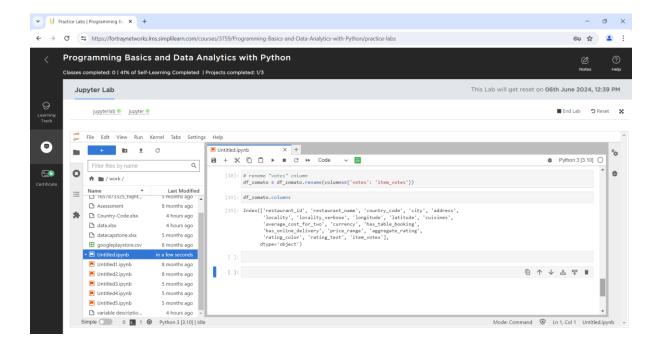
Import packages for data visualization:



Convert all column names to lowercase and use underscores to separate words.

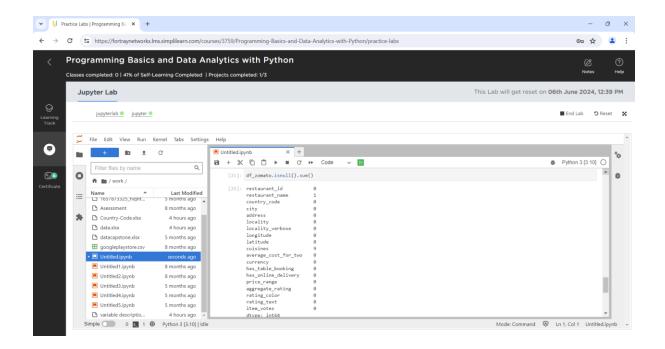


Rename the "votes" column to "item_votes:

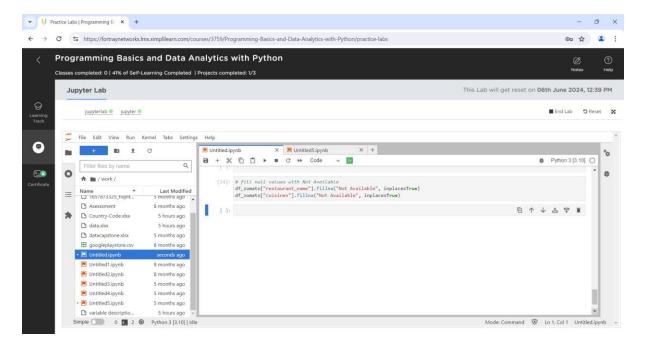


Check null values:

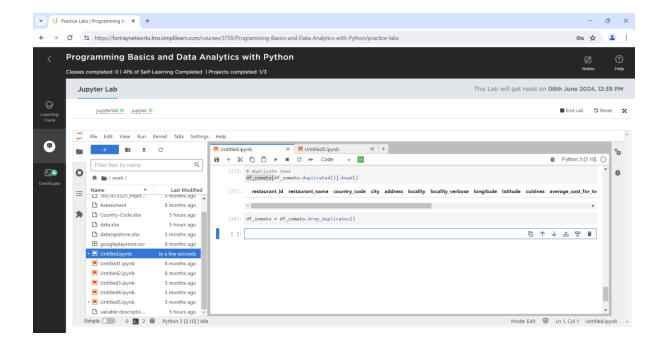
Looks like there are some null values in the columns restaurant_name and cuisines



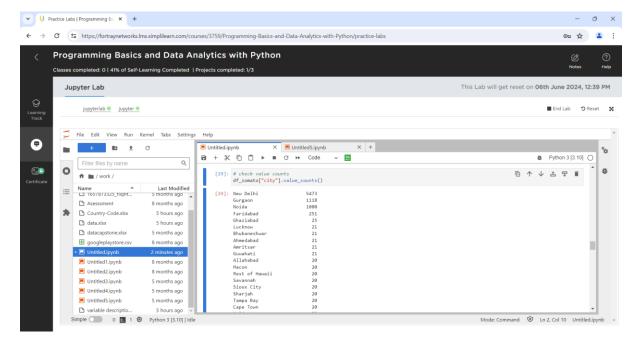
Fill the null values values in the columns restaurant_name and cuisines with "Not Available"

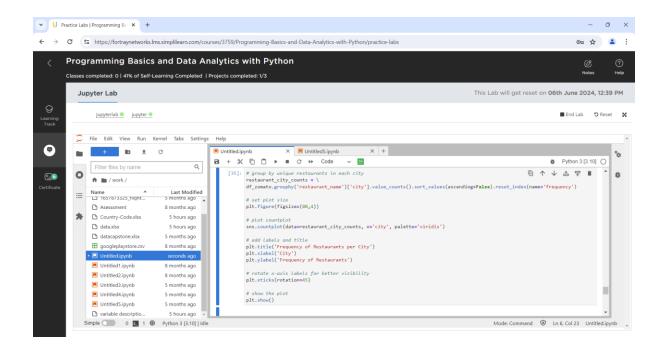


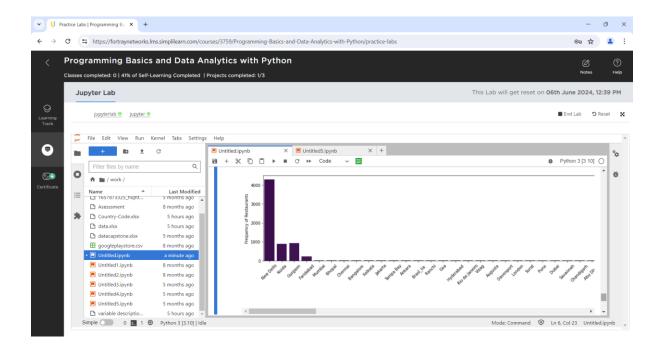
Check duplicate rows:



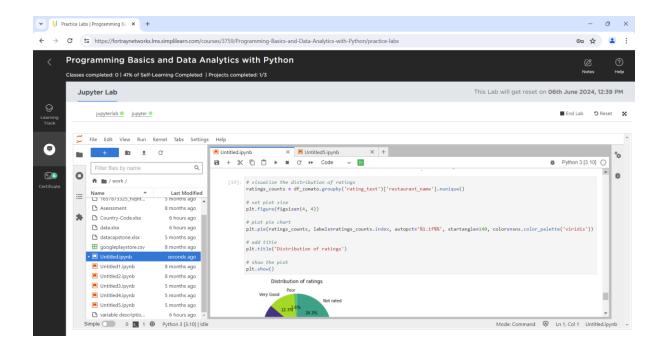
Explore the geographical distribution of the restaurants, finding out the cities with maximum / minimum number of restaurants.

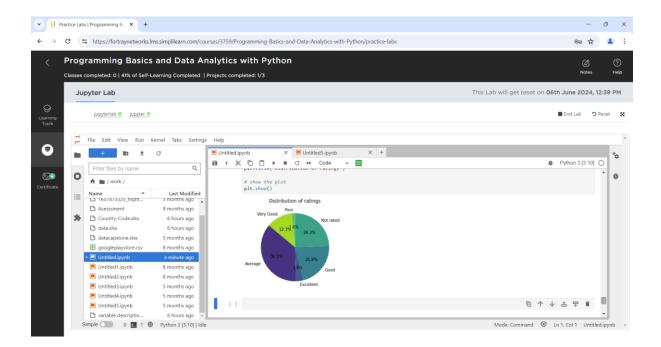




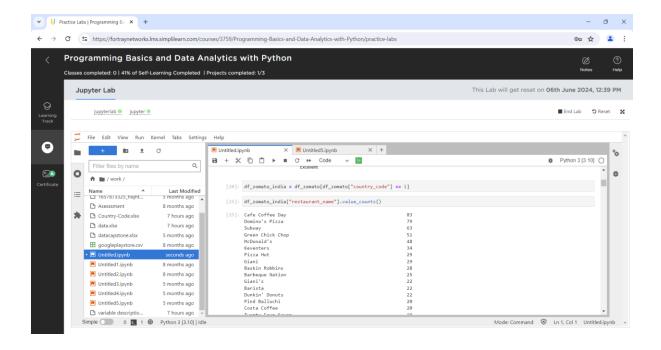


Explore how ratings are distributed overall.

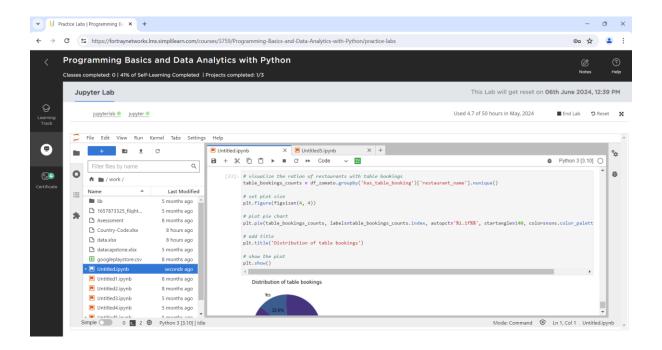


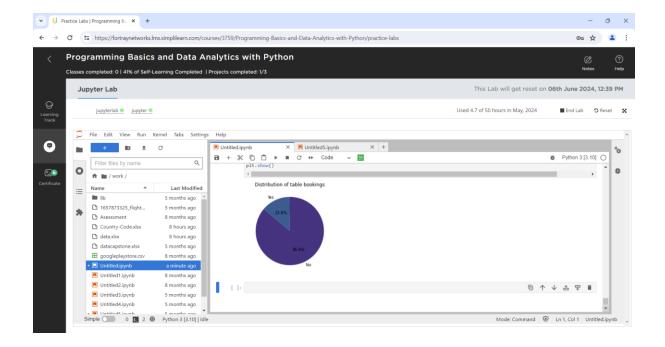


Explore the franchise with most national presence:

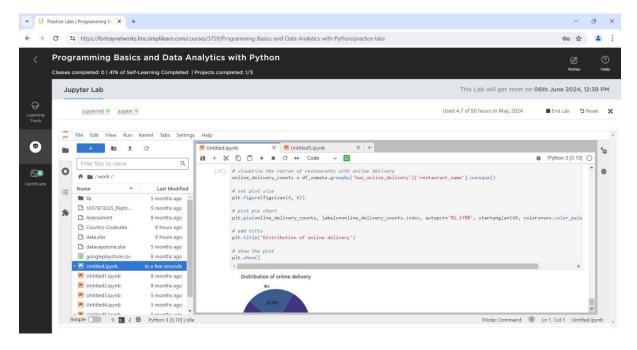


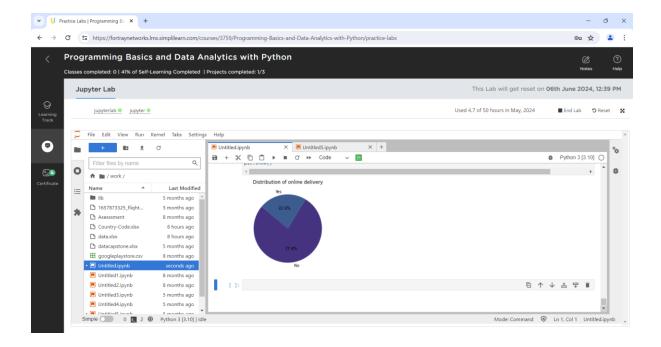
What is the ratio between restaurants that allow table booking vs that do not allow table booking?



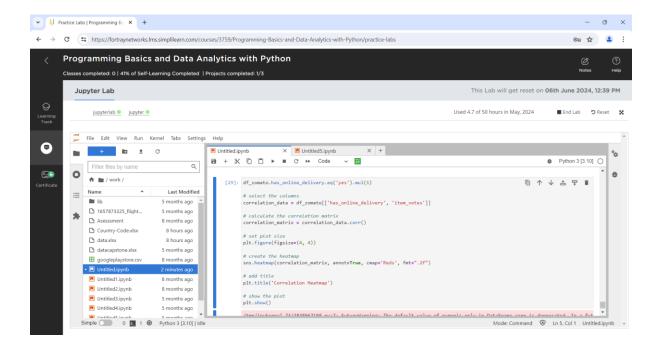


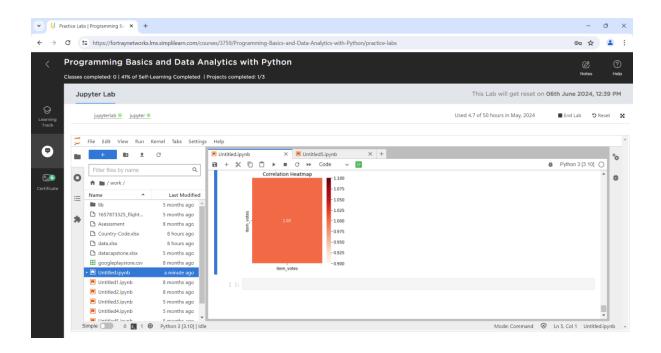
What is the percentage of restaurants providing online delivery?



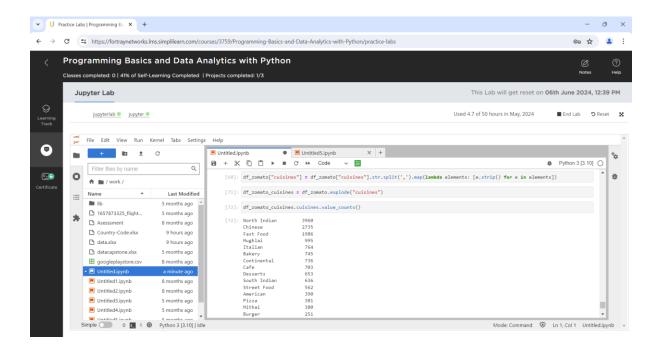


Is there a difference in no. of votes for the restaurants that deliver and the restaurant that don't?

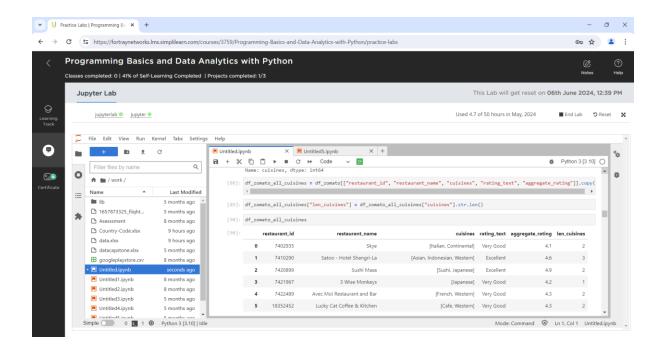


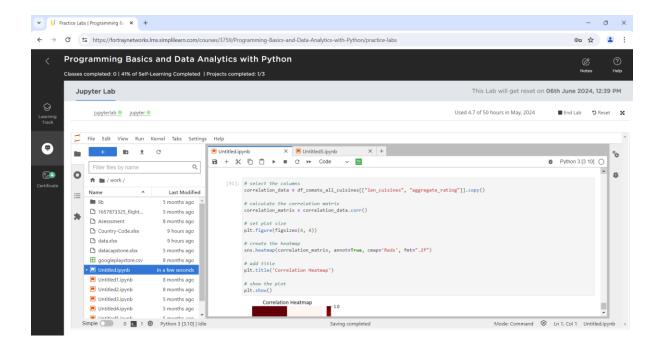


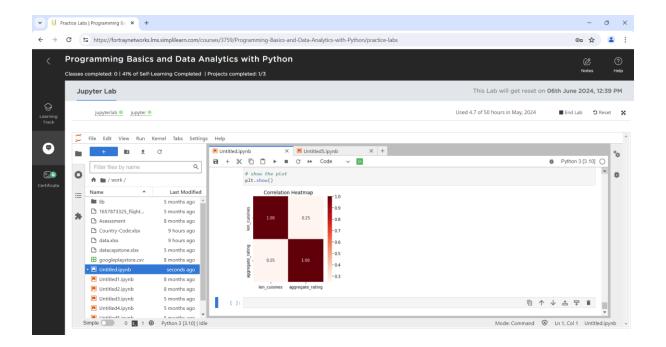
What are the top 10 cuisines served across cities?



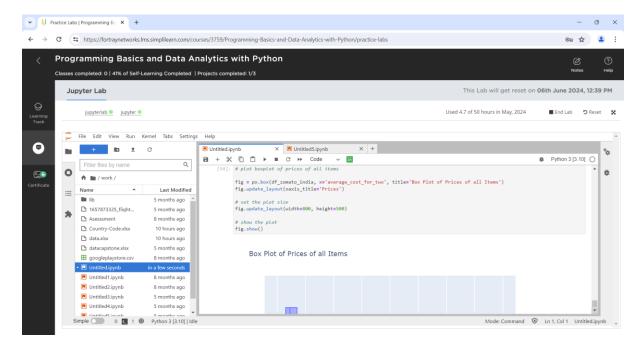
What is the maximum and minimum no. of cuisines that a restaurant serves? Also, what is the relationship between No. of cuisines served and Ratings

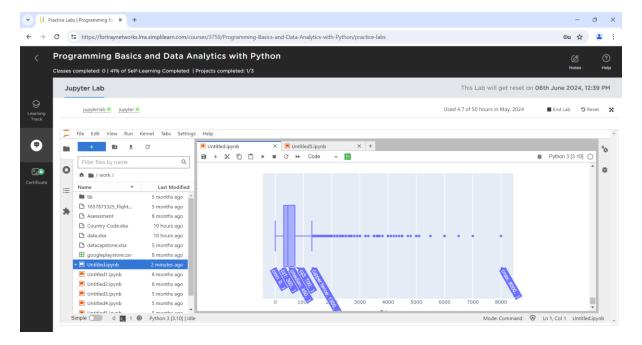






Discuss the cost vs the other variables.





It revealed that the median price for all items in India is 450 rupees, with the majority falling within the range of 300 to 700 rupees. However, several outliers are present, indicating dishes with significantly higher prices, with one reaching as high as 8000 rupees.

Explain the factors in the data that may have an effect on ratings e.g. No. of cuisines, cost, delivery option etc.

Dining Type Analysis offered valuable insights into the customer's inclination towards dining or delivery services. Versatility in service, offering both dining and delivery options, proved to be a key factor in maximizing engagement.

The City Analysis revealed the best-suited locations for opening a restaurant, considering factors like engagement and competition. New Delhi surfaced as the busiest location, having maximum number of competitors.