- What did you find? Which borough is the most expensive? Any other interesting trends?
    - Hackney is the most expensive borough listed, with an average value of approximately 6.198 million (the unit isn't clear but likely pounds sterling) for the year 2018.
    - Following Hackney, Waltham Forest and Southwark have the next highest average values, indicating that they are also relatively expensive areas within London.
    - The range of average values among the listed boroughs is quite tight, with the difference between the most expensive (Hackney) and the least expensive (Greenwich) being just over 1.4 million. This suggests a high overall value of housing in London, at least in these boroughs.
- How did you arrive at your conclusion?
    - I looked at the data table that lists boroughs alongside their respective average prices for a specific year (2018).The values are likely denoted in a monetary unit (most likely pounds sterling, although not explicitly stated). Then , I compared the numerical values (average prices) for each borough.And identified the highest value in the list, which corresponded to Hackney. By ranking the boroughs from the data table according to their average values, I confirmed that Hackney had the highest average price, hence concluding it was the most expensive borough from the provided data.
- What were the main challenges you encountered? How did you overcome them? What could you not overcome?

    Overcome :

    - Able to access the London housing price index from a government website, which likely provided comprehensive and reliable data.
    - Used pandas functions like drop(), rename(), and melt() to reshape and clean your data.
    - Used a bar chart to visualize the average prices which is a clear method for presenting this kind of data.
    - I have an error several time with using groupby() on section 2.6 but solved it by refresh the pandas

    Challenges :

        - Obtaining reliable and up-to-date data can be difficult, especially for large datasets like housing prices.

- Interpreting the data correctly to make informed conclusions can be challenging, especially in complex domains like housing markets.
- Is there anything you'd like to investigate deeper?
  - Investigate how the average prices have changed over a longer period to identify long-term trends in the housing market.
  - Explore the relationship between housing prices and affordability for different income groups.
  - Use statistical modeling to forecast future housing prices based on current trends and economic indicators.
- Conclusion
  - Based on the data provided for the year 2018, Hackney is the most expensive borough with an average house price of approximately 6.198 million. The least expensive borough from the provided list is Greenwich, with an average price of around 4.763 million. The range between the highest and lowest average prices among the listed boroughs is relatively small, indicating a high overall value of housing in these areas of London. To draw broader conclusions about trends or to identify the most and least expensive boroughs across all of London, one would need access to the complete dataset and analyze the prices over a series of years.