# Python Practical Task Session 4

**TASK - You now have a task to complete that involves several steps.**

The aim of this task is for you to put into practice some of the skills that we have learnt and for you to try and solve some problems.

Feel free to refer back to previous sessions, research, help each other and ask questions.

First off we need to start by bringing in the airbnb.csv file and you need to ensure that you are parsing host\_since as a date’s column.

Once that has done we will then incorporate some Exploratory Data Analysis and cleansing from today’s session and from previous sessions.

Start by completing the following:

1. Find out the info about the data.
2. View the top 5 rows of the data
3. Check for how many null items are in each column - if any then remove them.
4. Check for any duplicates - if any then remove them.
5. You then need to remove the value - SF from the city column.
6. Find out the unique values from city to check the above has worked.
7. Rename the following columns (you can do it as one or separately). – cleaning\_fee (cleaning\_price), room\_type(type\_of\_room) & zipcode(postcode)
8. Drop the columns amenities and host\_identity\_verified
9. You need to replace strict & flexible from the cancellation\_policy Column with really\_strict & really\_flexible.
10. You then need to complete a value count of how many of each policy.
11. You then need to find all of the Airbnb’s that accommodate over 10
12. You then need to find all of the Airbnb’s that have over 50 reviews
13. Now create a day, month and year column from the host\_since column.
14. Sort the data by city.
15. Save this updated file.

Next:

Create 3 groupby following the correct specification:

1. Average Price & Average Number of Reviews per city - with the index reset and the data rounded to 1 decimal place.
2. Lowest Price per neighbourhood with the index reset.
3. Highest price per accommodates - index reset - data rounded to 1 decimal place & then sorted by accommodates (ascending False)
4. Finally - Save the 3 groupby - Feel free to add any other functions along the way.