

# Assignment 3 - Data Wrangling with Google Sheets

# Instructions

- 1. Download the Airbnb NYC.csv data file and import it into Google Sheets.
- 2. Complete the tasks and answer the question
- 3. Please submit the assignment through TalentLabs Learning System. You will need to submit a zip file which contains this word document (with answers) and the data wrangled submission.csv file.

### Question 1:

Organise the dataset and paste a screenshot of the last 3 columns and the first 3 rows below:

	name	host_id	host_name	neighbourhood_group	neighbourhood	latitude	longitude	room_type	price	minimum_nights	number_of_reviews	last_review	reviews_per_month	calculated_host_listings_count	availability_
	2539 Clean & quiet ap	2787	John	Brooklyn	Kensington	40.64749	-73.97237	Private room	146	1		2018-10-19	0.21	6	
	2595 Skylit Midtown C	2845	Jennifer	Manhattan	Midtown	40.75362	-73.98377	Entire home/apt	225	5 1	4	2019-05-21	0.38	2	
	3847 THE VILLAGE (	4632	Elisabeth	Manhattan	Harlem	40.80902	-73.9419	Private room	150	3		)		1	
	e last 3 r		Hara & Assaul	Market	l balance	40.04475	72.04087	Faller hamadesi	415	40					
364	85431 Sunny Studio at	23492952	ligar & Aysel		Harlem	40.81475		Entire home/apt	115					1	
364 364	- 10.00	23492952 30985759		Manhattan	Harlem Hell's Kitchen Hell's Kitchen	40.81475 40.75751 40.78404	-73.99112	Entire home/apt Shared room Private room	115 55	1		)		1 6	

# Question 2:

Inspect the dataset. What data cleaning operations need to be carried out from the ones below? Select all that apply.

⊠ A – Remove	duplicate rows
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☑ B – Handle missing values

☐ C – Correct data formats

☑ D – Drop irrelevant columns

□ E – Fix inconsistent data entry

☐ G – Correct spelling errors

☐ H – Correct numerical errors



## Question 3:

Columns M and N (last review and reviews per month) have missing values. Why do you think those values are missing? How would you suggest handling those missing values?

Both the 'last review' and 'reviews per month' columns display missing values because they're the posts that have not received comments since their publication or listing date.

For "last review" column, I will delete this column as it was irrelevant. It doesn't have any relationship with the subject matter of this project analysis: house rental price.

Meanwhile for "reviews per month" column, I will replace the missing values with 0, meaning it doesn't have any comments every month.

### Question 4:

Clean the dataset and handle the missing values. Next, complete the following data enrichment operations:

- 1. Make all the ID column values 10 numbers in length (custom formatting pad with 0s).
- 2. Make a new column. Name this column Clean. Search the Name column for the text "Clean". If the value is present, amend your new Clean column with the value 1. Else, 0.
- 3. Change the room type column, to only include one word Private or Entire (instead of Private room and Entire home).
- 4. Filter the dataset for Brooklyn neighbourhood group only.

Once finished, export the dataset as a CSV file. Name the file submission.csv. Submit both this word document and the CSV file together in a zipped folder. Name the zip folder submission.zip.