

### **Data Analyst Challenge**

Using User, Property Listing, Search and Enquiry Data

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# **Data Background**

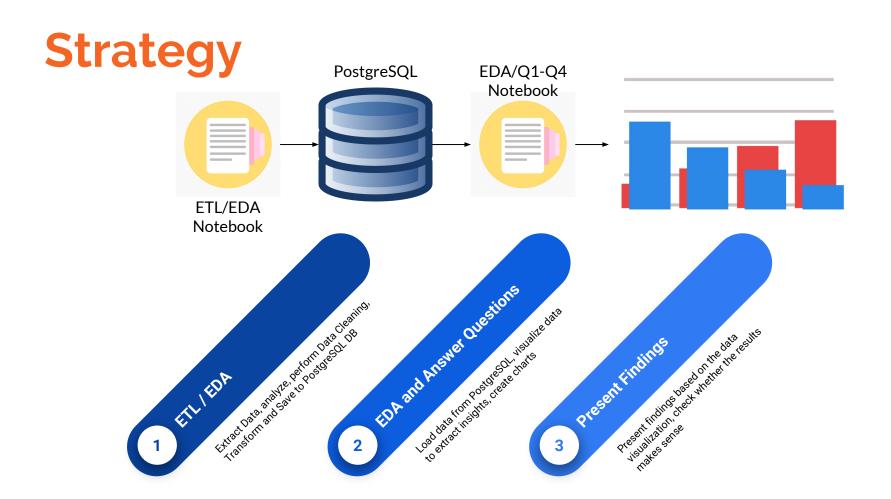
The data corresponds to a subset of our searches and enquiries for the month of July 2018.

All dates are in UTC.

- Enquiries received by agents from consumers
- Searches by district
- Listings

### **Questions to Answer**

- 1. Write an SQL query that ranks districts by search volume (if the search was for more than one district then each value in the list is counted as one search)
- 2. Which district had the highest day-on-day percent change in search volume and when did it occur?
- 3. How would you segment our user base based on their search behaviour?
- 4. We want to drive conversions in the form of enquiries, what recommendations would you make to the Product Team?



# Appendix

## I. Project Environment

- Ubuntu 18.04.01 LTS x84
- Anaconda, Jupyter, Python 3.6
- PostgreSQL 10, pgAdmin4
- Intel Core i5-8400 (6 cores, 2.8Ghz)
- 16 GB RAM with SSD + HDD

### **II. References**

#### Dataset and Project Background:

 $\frac{https://docs.google.com/spreadsheets/d/1Kb521qUBEU0mPD0vIFLXTGGVTfhKxd1zMr95CCOr6D4/edit}{\#gid=1094332359}$