**Data Analysis**

You are working as a Data Analyst for a short-term housing rental company. You are presented with the following tables:

1. Bookings - Each record contains information about individual booking made by a tenant

Fields:

***booking\_id***: Unique ID for each booking

***listing\_id***: Listing for which the booking is made

***tenant\_id***: Tenant who made the booking

***booking\_date***: Date on which the booking was made

***booked\_from***: Start date of the booking period

***booked\_to***: End date of the booking period

1. Listings - Each record contains information about individual listing

Fields:

***listing\_id***: Unique ID for each listing

***city***: City in which the listing is located

***price***: monthly price of the listing

1. Tenants - Each record contains information about individual tenants

Fields:

***tenant\_id***: Unique ID for each tenant

***job\_title***: Profession of the tenant

***language***: Preferred language of the tenant

***age***: Age of the tenant

(Find the tables in the shared google drive)

Using the given data, please answer the following questions.

\*You are free to use your own assumptions in case of uncertainty.

**Part A:**

1. Prepare an exploratory analysis on this data (eg. average rental price per city, duration of stay by age, etc)

Create a report with relevant charts (feel free to use any visualization tool of your choice and share the results in a pdf.)

**Part B:**

Please answer the following questions using SQL queries (You can use any SQL you are comfortable with. Just make sure you save your queries in a pdf document to share with us.)

1. Find the top two expensive properties in each city. How many days in total each of these properties are booked for?
2. How many properties were unoccupied between 1st May 2022 and 31st July 2022 ?
3. Identify the top 5% of tenants who have made the most bookings. How old are they and what do they do?
4. How many tenants made a booking extension (booked the same property for additional days immediately after the initial booking period ended)