1. Understanding the available data by exploring the schemas and some extracts of the datasets.

✓ Listing Table:

- id (string): The ID of the rental.
- room_type (string): The type of rental (e.g., entire home, private room).
- host_response_time (string): The average response time displayed in Airbnb to customers.
- review_scores_value (float): The average review score for the rental.

✓ Calendar Table:

- listing_id (string): The ID of the rental.
- date (date): The date of the rental or non-rental.
- available (boolean): Indicates the availability of the rental.
- price (float): The price for the specific date.
- 2. Joining the tables to create a single source for analysis.

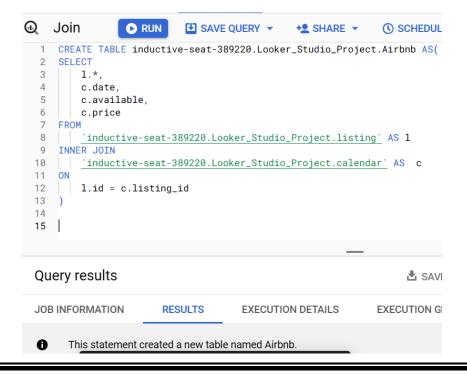
1. create dataset

2. Copy tables

Create dataset					Copy table		
Project ID inductive-seat-389220	CHANGE	Copy table			Source		
Dataset ID * Looker_Studio_Project		Source Project	Dataset	Table name	Project data-analytics-bootcamp-363212	Dataset airbnb	Table name calendar
Letters, numbers, and underscores allowed		data-analytics-bootcamp-363212	airbnb	listing	Destination		
Location type Region Specify a region to colocate your datasets with other Google Cloud service		Destination			Project * inductive-seat-389220		BROWSE
Multi-region Allow BigQuery to select a region within a group to achieve higher quota lin		inductive-seat-389220		BROWSE	Dataset * Looker_Studio_Project		
Multi-region * EU (multiple regions in European Union)	•	Dataset * Looker_Studio_Project			Table *		
Default table expiration Enable table expiration		Table *			Maximum name size is 1,024 UTF-8 byt dashes, and spaces are allowed. The jo needed.		
Default maximum table age	Days	Maximum name size is 1,024 UTF-8 byte dashes, and spaces are allowed. The job	s. Unicode letters, mark will create the specified	I destination table if needed.	Advanced options		^
Advanced options	∆ .	Advanced options		~	Encryption Google-managed encryption key		
<u> </u>		COPY CANCEL			No configuration required		
CREATE DATASET CANCEL		COLL			COPY		

3. make join

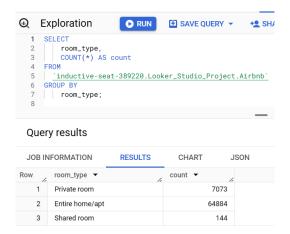
https://console.cloud.google.com/bigquery?sq=70374119533:c5495bc93d7248a 18ae5625a1705f444



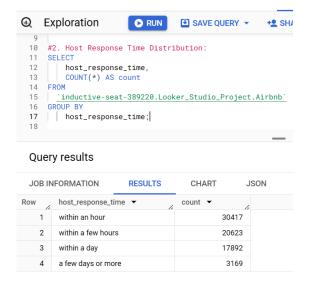
3. Exploring the data as is, without additional transformation, to get an idea of the main metrics and analysis you will be able to perform.

https://console.cloud.google.com/bigquery?sq=70374119533:eadfd7d94a4c413 aba6434b480e04ba0

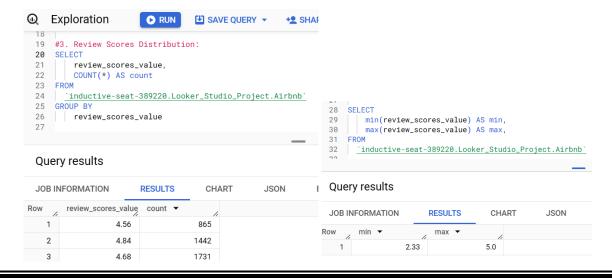
1. Room Type Distribution



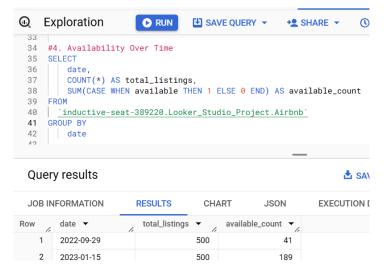
2. Host Response Time Distribution



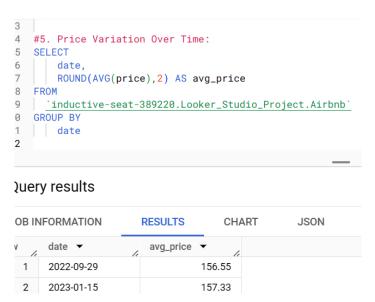
3. Review Scores Distribution



4. Availability Over Time



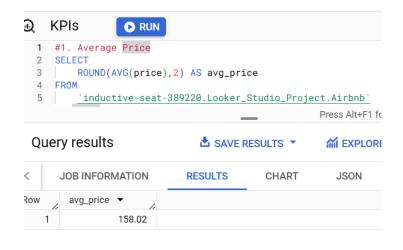
5. Price Variation Over Time



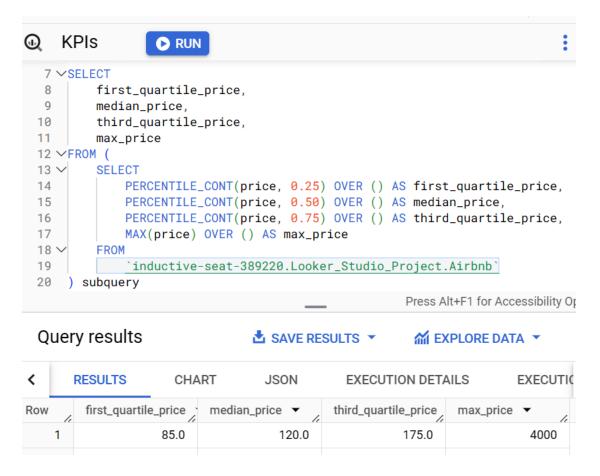
* KPIs

https://console.cloud.google.com/bigquery?sq=70374119533:d460f0f2269 64ade9cfe0ee68be2e881

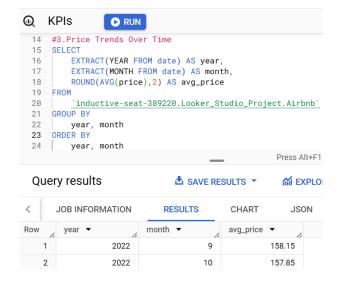
A. Average Price: This KPI gives an overview of the typical price of rentals.



B. Price Distribution: Understanding the distribution of prices can help identify pricing segments.



C. Price Trends Over Time: Analyzing price trends over time can reveal seasonal variations or market trends.

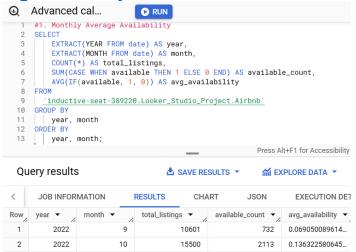


D. Price Competitiveness: Comparing prices of rentals with similar characteristics can assess competitiveness.

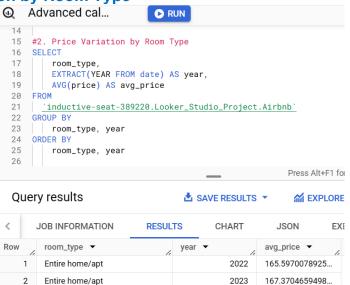


 Returning to SQL if you want to perform more advanced calculations. https://console.cloud.google.com/bigquery?sq=70374119533:1edc9b0db1e44fd dac54675102945d64

1. Monthly Average Availability

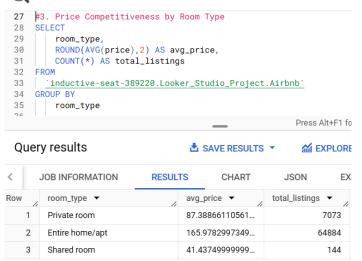


2. Price Variation by Room Type



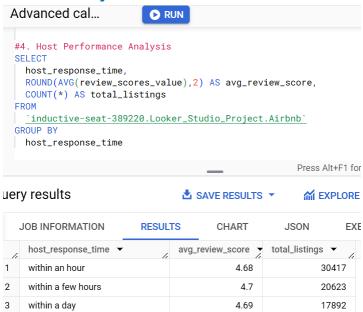
3. Price Competitiveness by Room Type

BigQuery



4. Host Performance Analysis

a few days or more



4.24

3169

5. Testing out different chart types to effectively communicate your story.

 $\frac{https://lookerstudio.google.com/reporting/3360069a-2508-4d60-b79a-a7ebe8d2d8c6}{a7ebe8d2d8c6}$

