M-STAY: Homestay and Rental Service

42.26K

13M

4867

4935

AVERAGE Booking Cost

TOTAL Number of Bookings

Number of Reviews

Number of Listings

Remove Duplicates

- · Booking Table: Removed 2 duplicate booking_id entries.
- · Host Table: Removed 4 duplicate host id entries.

pooking_id entries. Data Cleaning

Remove Error Date

Host Table: Identified invalid host_since date (16/05/9999), set to NULL, and then
delete the invalid date.

Remove Inaccurate Value

 Listing Table: Identified negative listing_price value, update to NULL and remove them.

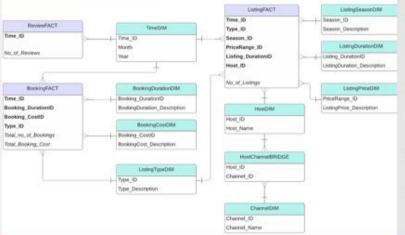
Remove Invalid Relationships

- Identified mismatched foreign keys in Review, Host Verification, Property Amenity Tables.
- · Set invalid foreign keys to NULL and removed them.

Delete Null Values

 Delete NULL in review_comment (Review Table), amm_description and amm_id (Amenity Table).

Star Schema Design



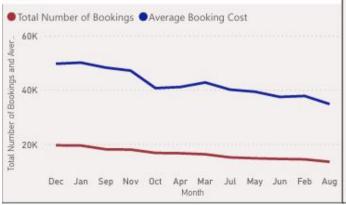
Analysis Result Summary

- In 2021, April had the highest number of bookings (140,515), while October had the fewest (7,544).
- Medium-term bookings (30-90 nights) consistently remained the most popular choice across all years.
- The highest number of listings was observed during Summer 2016.
- The number of reviews showed steady growth from 2010, peaking in 2017.

YEAR

All

Total Number of Bookings and Average Booking Cost by Month







Total Listing by Price Range



Number of Listing by Season

