

# About Dataset

This dataset contains detailed information about a real estate business, covering properties, clients, agents, sales, and visits. It includes:

- **Property** details such as type, location, size, and price.
- **Client** information including names and contact details.
- **Agent** information with their personal and contact details.
- Sales records showing which property was sold, to which client, by which agent, along with sale dates and prices.
- Visit records tracking when clients visited specific properties and which agent assisted them.

**Overall**, the dataset provides a complete view of the property sales process from listing and client visits to final transactions making it ideal for analysis of performance, customer behavior, and market trends.

Link Data set



If Customers visit properties a lot......

Does that mean sales will automatically increase?



We're looking at a portfolio of 1000 Properties



It are the most visited type

The highest in listing prices

The top single property profit \$131m

**New York** 

while

Miami

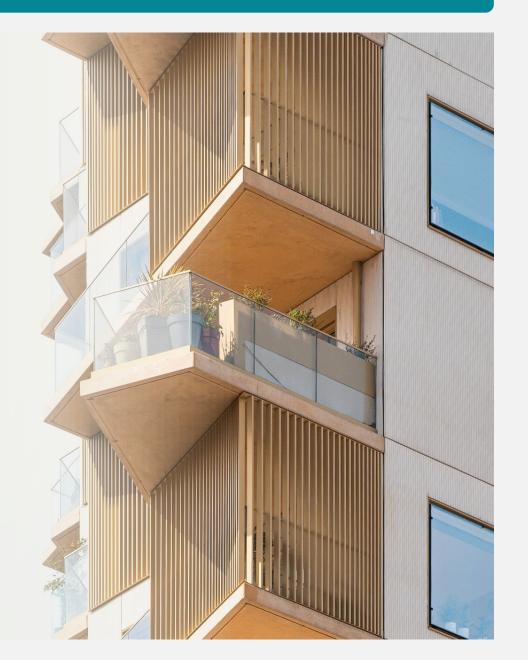
- Leads sales with 43% of the total
- Showing the highest conversion rate among cities. This means demand in New York is very strong, and clients there tend to make purchase decisions faster likely linked to high population density and the overall value of the real estate market.

Attracts the largest number of visits



### Apartments

- It have the **highest conversion rate** at **%46**
- That is meaning that clients visiting apartments are more likely to buy compared to other types
- This probably reflects strong demand for personal housing and the fact that it's easier to decide on a home purchase than on a commercial investment



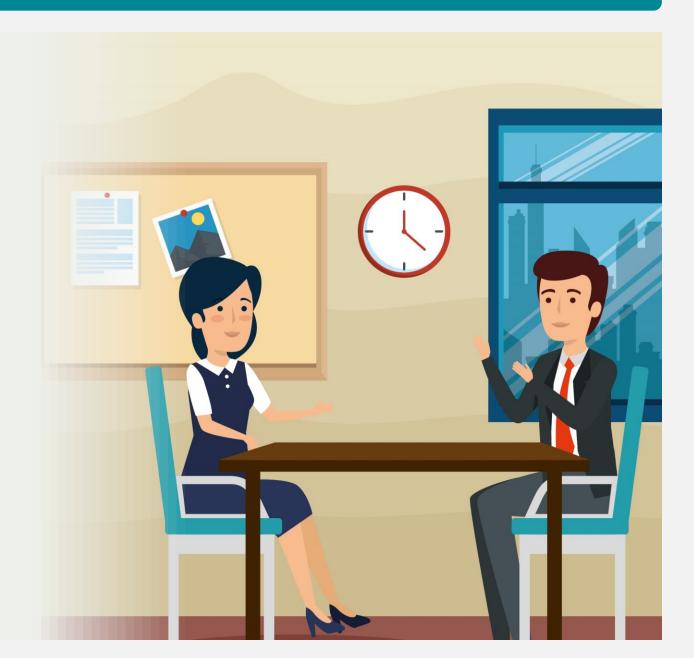
We have 100 agents

Interestingly, the top two in terms of number of clients (66 each) are not the top sellers

Instead, the highest performers are







We have 1,500 clients

The top four clients contribute the largest sales, but that doesn't necessarily mean they bought multiple properties it could just be one expensive deal in a prime location

What's clear is that there is **no direct link between visits and purchases**:

- Some clients visited many properties without buying, while others bought several properties without visiting them at all.
- We also see corporate clients in the mix, and the repeat purchase rate is

38.14%, which shows decent customer loyalty.



### In terms of sales performance

\$2B
Total sales

2000
Transactions

\$769.4K
An average deal

\$800K
Sales 'warehouses



Total Sales are \$793M across 1,030 transactions.

The top-performing property type that year was offices,
 with sales worth \$786.58K

On a monthly level, December was the strongest month at \$83M, thanks to tourism and holiday activity, while August was the weakest, mainly because the start of the school year reduces tourism.

Total Sales

271 M



2023





• There were 5,000 visits, with an average conversion rate of 0.40

The visit trend is generally stable

Although February recorded the lowest number of visits.

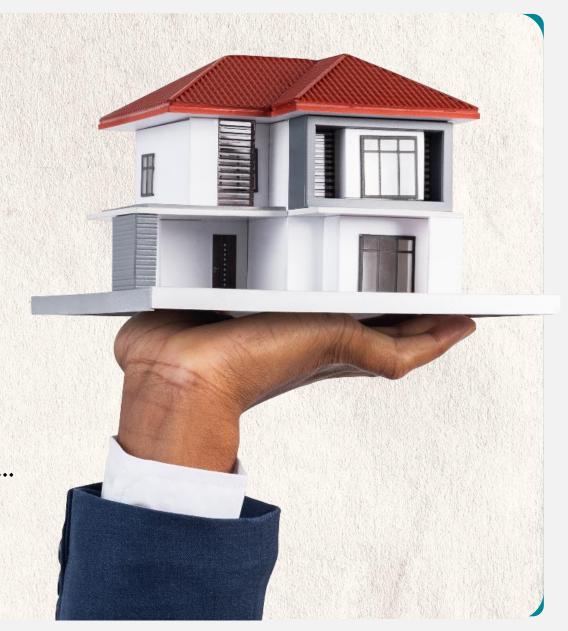
The big picture? Visits don't automatically translate into sales.

Factors like location, seasonality, property value, and the role of agents are what really drive the market



- The data shows that visits ≠ sales.
- Some Clients visited many times without buying, while others made purchases without multiple visits.
- The key factors are:
- Location (tourist cities like Miami and New York).
- Seasonality (December is strong / August is weak).
- Property value (one deal can equal dozens of visits).
- Agents (they're the real drivers of conversions).

So, Visits matter as an indicator, but they're not a guarantee... sales come from a deeper understanding of the data and market behavior















# Tools





#### 1. Setting up the Database

- Built a database called RealEstateDB.
- Added tables for Properties, Clients, Agents, Sales, and Visits.
- Loaded data from CSV files into the database.

#### 2. Cleaning & Enriching the Data

- Created extra columns like full client name, email type, repeat buyer flag, and agent contact number.
- Summarized client activity: total visits and total purchases.
- Built summary tables (e.g., SalesProperty) to combine property and sales info.

#### 3. Running Business Queries

- Clients: who spends the most, repeat vs. first-time buyers, most active visitors.
- Agents: best performers, average deal size, and conversion rates from visits to sales.
- Properties: average price per square meter in each city, conversion rates, top 10 most expensive listings.
- Locations: total visits, sales, revenue, and visit-to-sale ratios.
- Property Types: which types sell the most, bring the highest revenue, and attract more buyers.

#### 4. Key Metrics We Looked At

- Average sales per property type.
- Conversion rate by agent, property, and location.
- Top 5 clients ranked by spending.
- Top 10 most visited property types.

Link SQL Code AS PDF

Mennatallah EL-Khateeb

Link SQL Code



### **Power BI**

#### 1. Loading Data

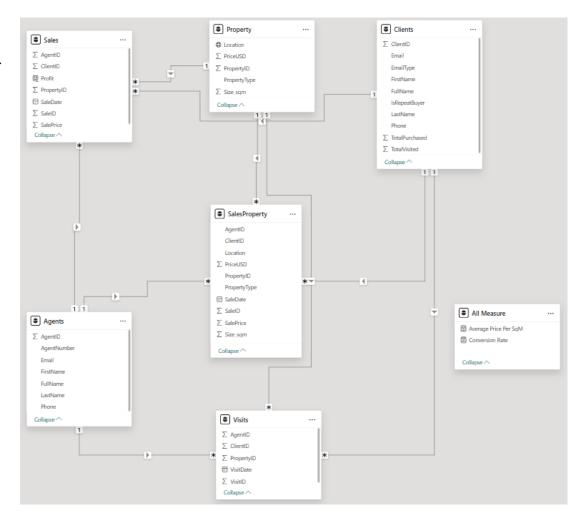
- Imported tables from SQL Server: Clients, Agents, Property, Sales, Visits, SalesProperty.
- Created a dedicated All Measure table to store measures separately.
- Verified relationships:
  - Sales ← Clients, Agents, Property
  - Visits ← Clients, Agents, Property
  - SalesProperty combines Sales + Property details for simplified reporting

#### 2. Data Transformation (Power Query)

- Cleaned unnecessary columns.
- Adjusted data types (dates, numbers, text).
- Unified naming conventions for consistency across tables.

#### 3. Creating Measures (All Measure Table)

- Conversion Rate = DIVIDE(COUNT(Sales[SaleID]), COUNT(Visits[VisitID]))
- Average Price Per SqM = AVERAGEX(Property, DIVIDE(Property[PriceUSD], Property[Size\_sqm]))
- Profit = SUMX(Sales, Sales[SalePrice] RELATED(Property[PriceUSD]))



## Contact us

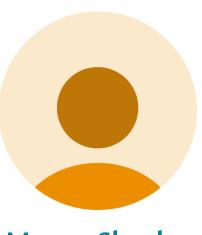


Mennatallah EL-Khateeb









Marwa Shaaban





