

# Home Purchase Decision Analysis

Florida, New York, North Carolina

Baruch College Ry



Team Members:

**Syed Shah** 

Ena Sula

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# The problem

Most people want a home, but don't even know where to begin

What the homebuyer should focus on

- Location
- Price and budget



## **Business Pitch**

Help clients find the home they desire





Help people make an informed decision about home buying





## Personas

- Homebuyers
- Dashboard Developers
- IT Project Manager
- Data Warehouse Specialist



# Requirements

- We will find the average price in each county and zip code
- In New York, North Carolina, and Florida





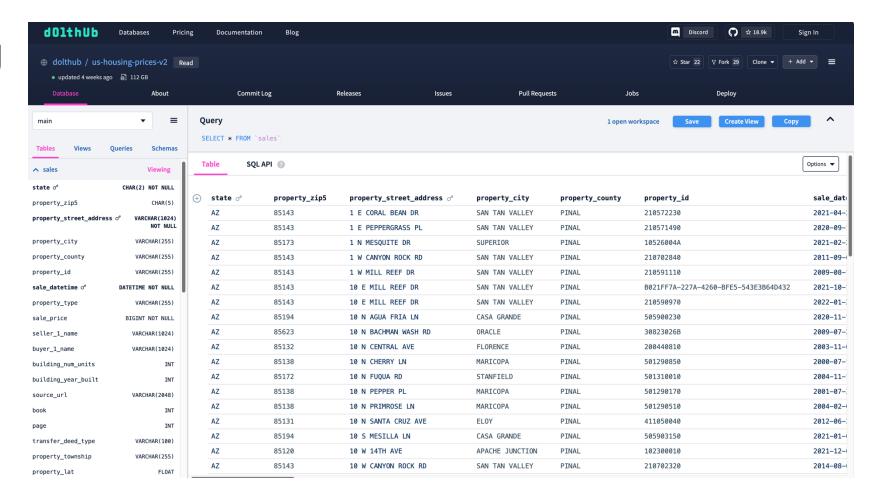
- Data accuracy
- Location
- Price transparency





# What is the process behind?

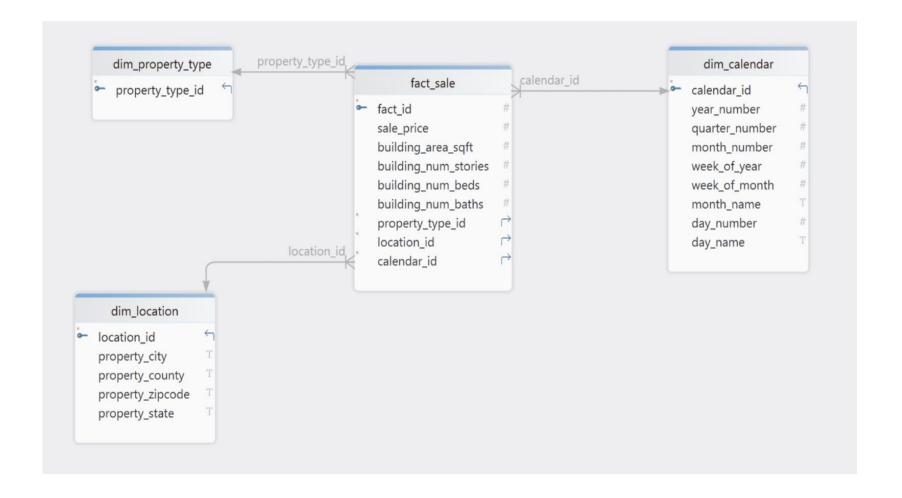
Data Sourcing





# What is the process behind?

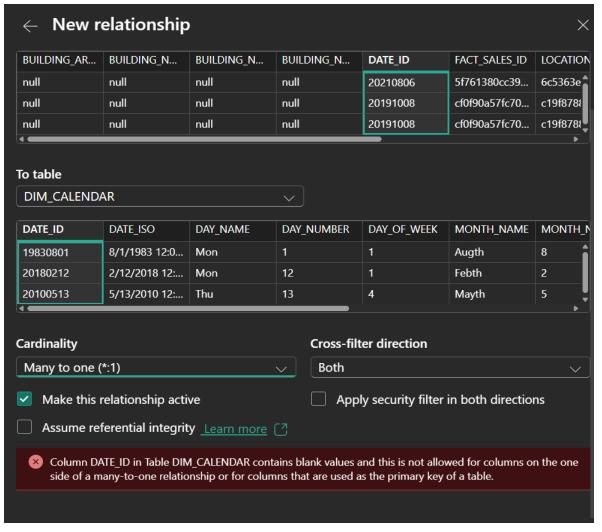
- Data Modeling
  - Azure
  - Snowflake
  - dbt





# What is the process behind?

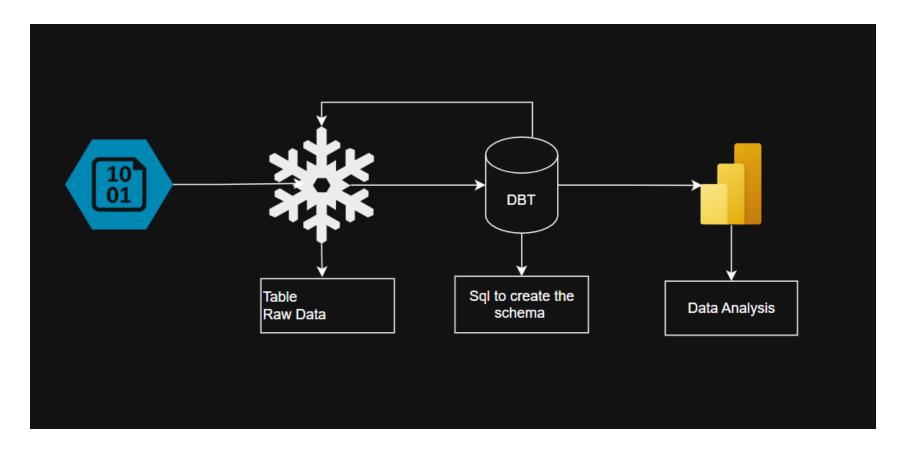
Data cleaning





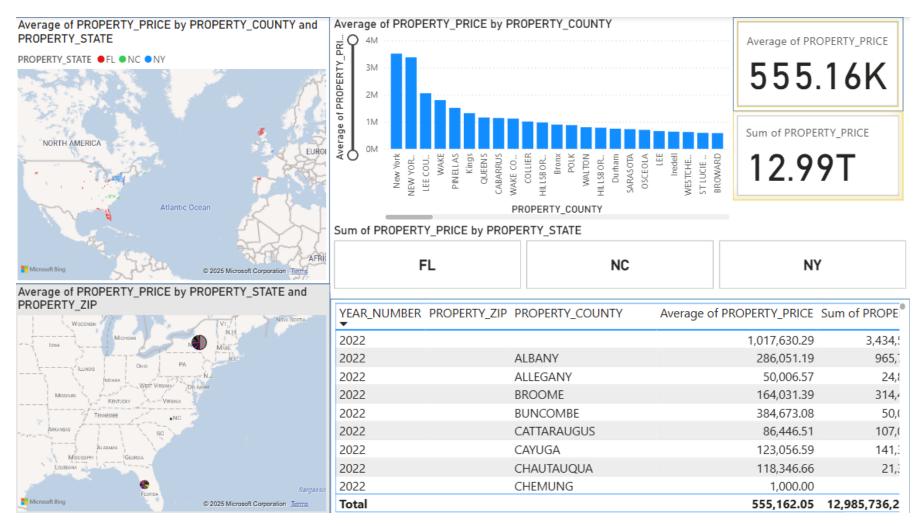


- Technical
- Visualization (Power BI)

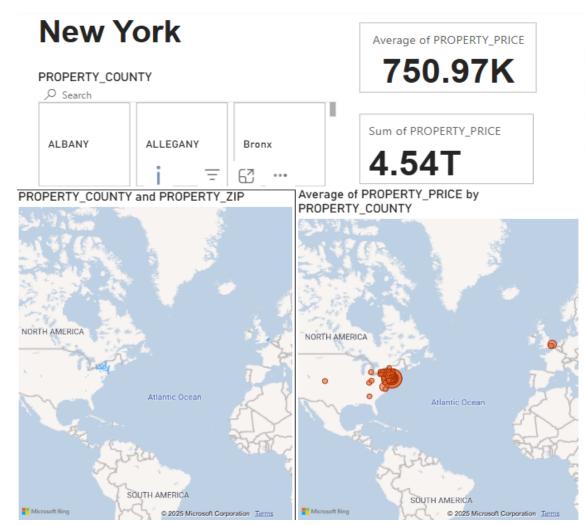


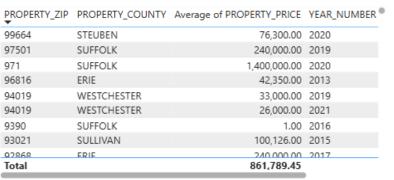


## The Visualization

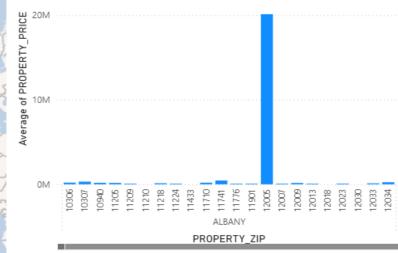




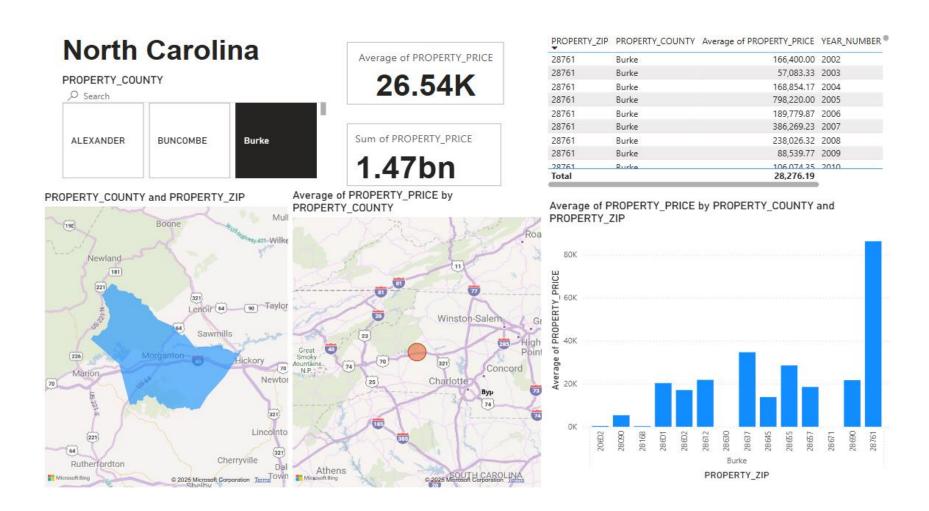




Average of PROPERTY\_PRICE by PROPERTY\_COUNTY and PROPERTY\_ZIP









#### **Florida**

PROPERTY\_COUNTY

PROPERTY\_COUNTY and PROPERTY\_ZIP

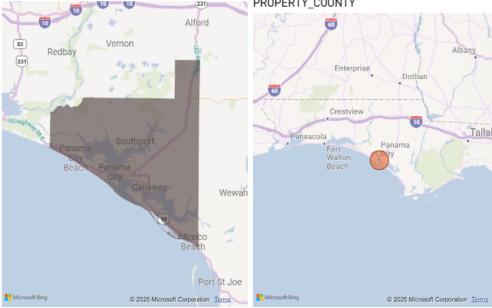
ALACHUA BAKER BAY

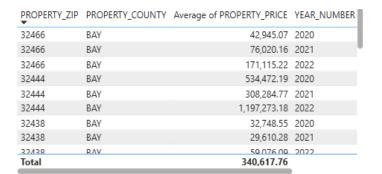
Average of PROPERTY\_PRICE **340.62K** 

Sum of PROPERTY\_PRICE

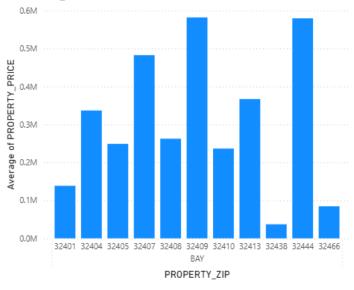
8.87bn

Average of PROPERTY\_PRICE by PROPERTY\_COUNTY





#### Average of PROPERTY\_PRICE by PROPERTY\_COUNTY and PROPERTY\_ZIP





### Results

#### New York

- Highest Average: New York \$3.52M
- Lowest Average: St Lawrence \$58.16

#### North Carolina

- Highest Average: Wake \$1.80M
- Lowest Average: Lee \$2.16

#### Florida

- Highest Average: Lee County \$2.05M
- Lowest Average: Bradford \$50.96K



## Conclusion

Make an informed, data-driven decision.



## **Future Work**

Other considerations that could be examined while making a decision regarding buying a property are the crime rate, school ranking, public transportation, and groceries suppliers.



## **Members Contribution**



**Syed Shah**: The leader and has been in charge of keeping us up to date with the analysis.



Ena Sula: In charge of dimensional modeling and visualization.



**Braily Noesi**: In charge of storing the data in temporary storage, and code process.



# Thank You!

{Have any question? }

Baruch COLLEGE NY