

Content







Into. & Task Management

Snowflake Environmental Setup Snowflake
Data Pipeline
Architecture



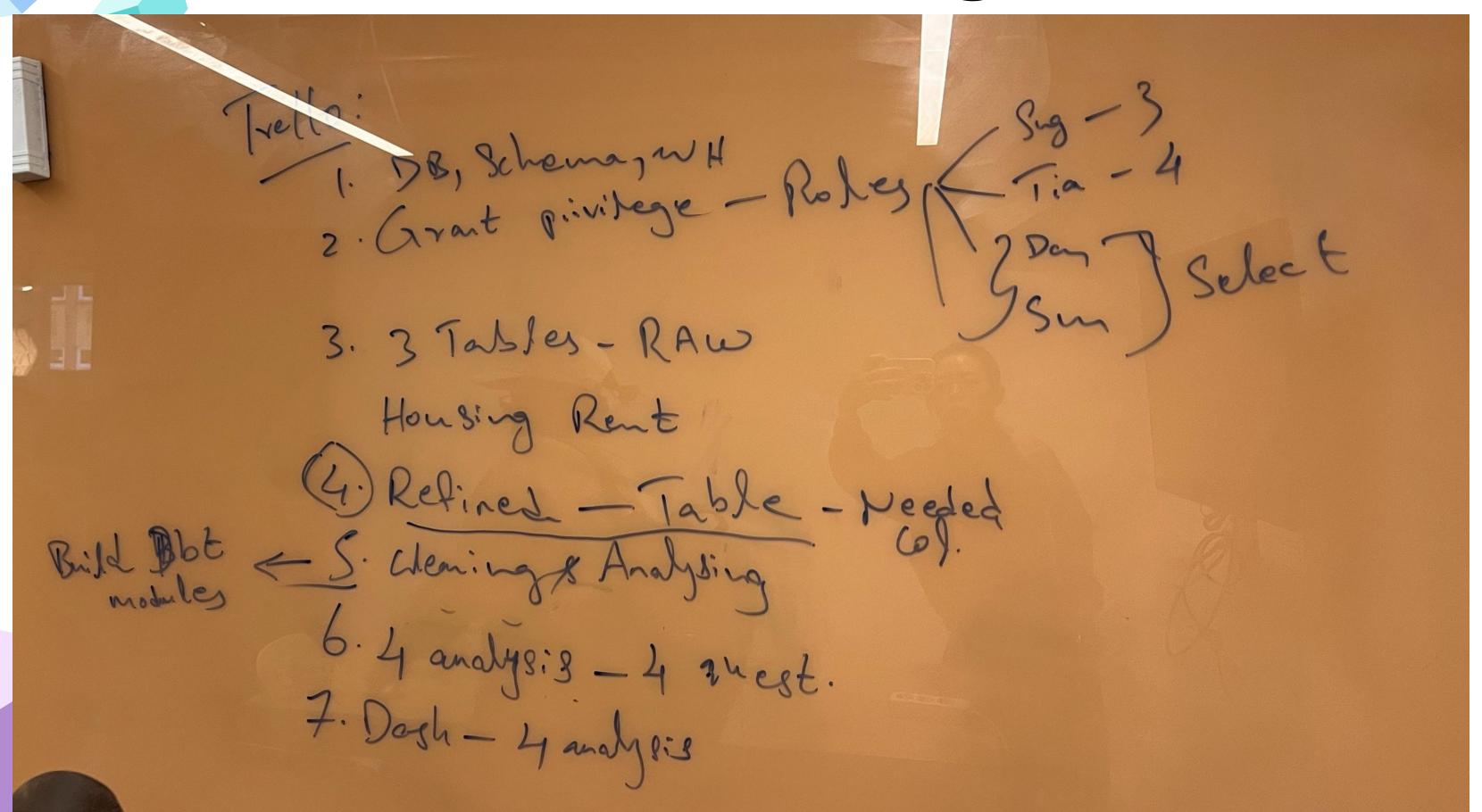




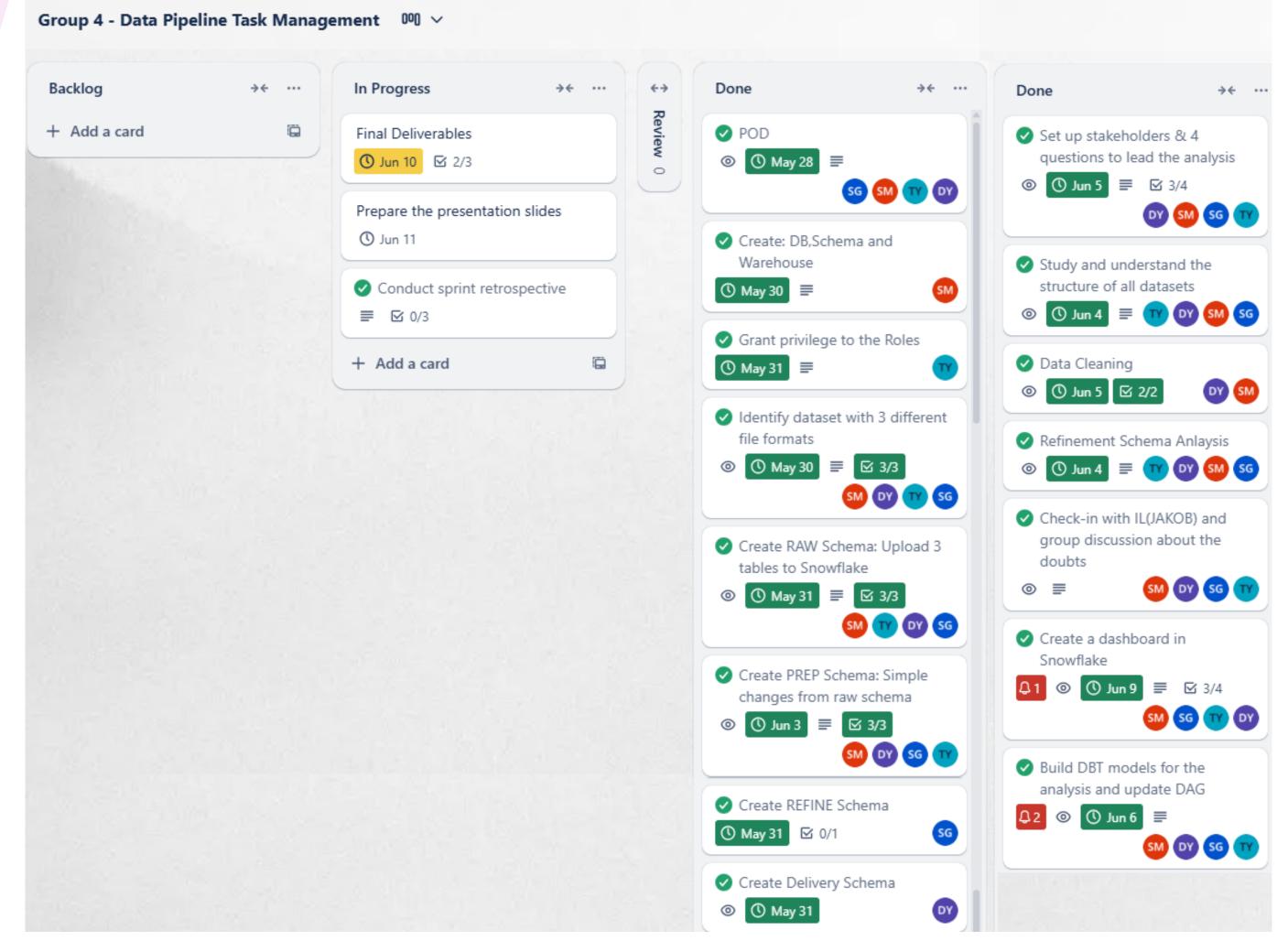
Dashboard for Analysis

DBT Transformation

Brainstorming



// Trello



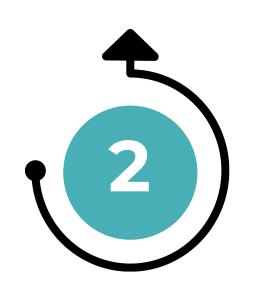




Snowflake Environmental Setup



Create Team Warehouse Create Database and Schemas



- · RAW
- · PREP
- · REFINED
- · DELIVERY







•••

Grant Privileges

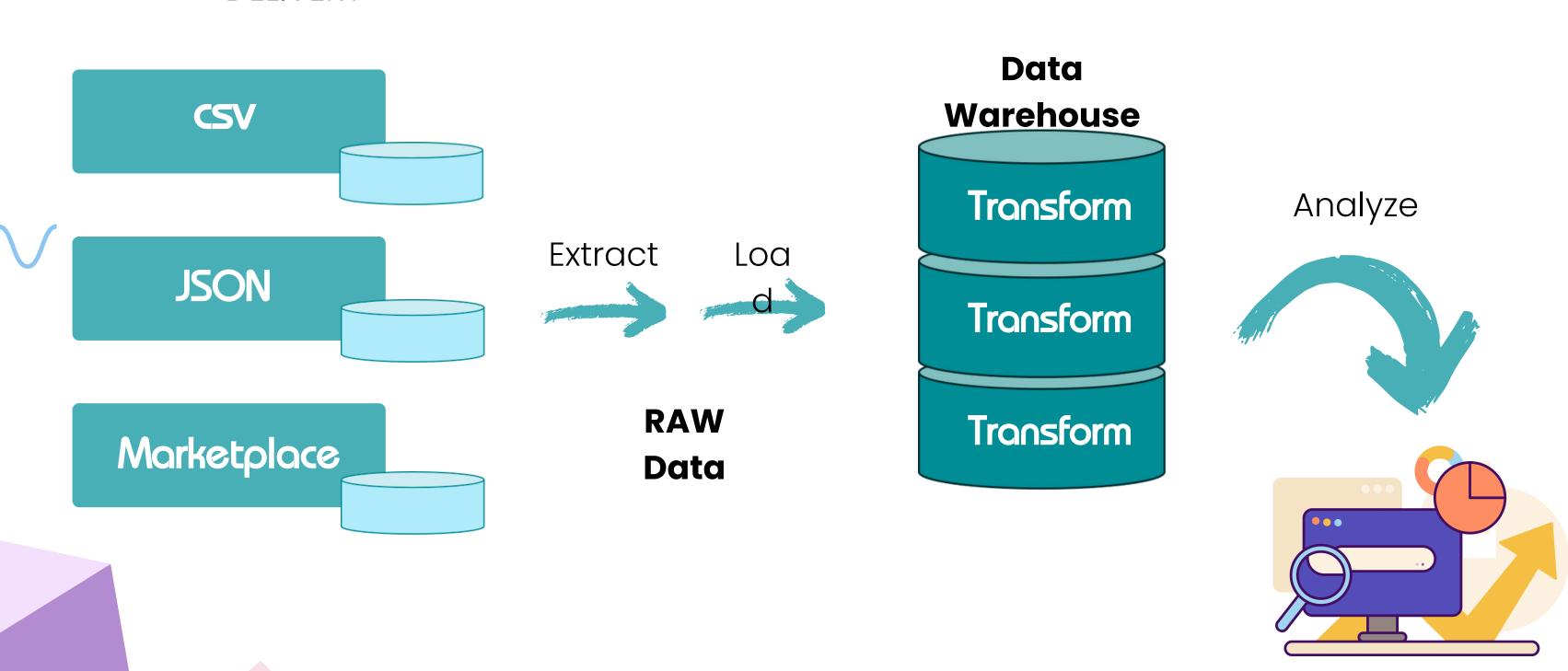


Privileges

CHIPMUNK_ROLE (Current Role)	USAGE
≟ KOALA_ROLE	USAGE
≟ LEMMING_ROLE	USAGE
≟ LEMUR_ROLE	USAGE
≟ TEAM_4_USER_ROLE	Q OWNERSHIP DELETE - FUTURE TABLE INSERT - FUTURE TABLE SELECT - FUTURE TABLE SELECT - FUTURE VIEW UPDATE - FUTURE TABLE USAGE - FUTURE SCHEMA
TEAM_4_VIEWER_ROLE	SELECT - FUTURE VIEW USAGE

Snowflake Data Pipeline Architecture

RAW → PREP → REFINED →
DELIVERY











Housing rental information data

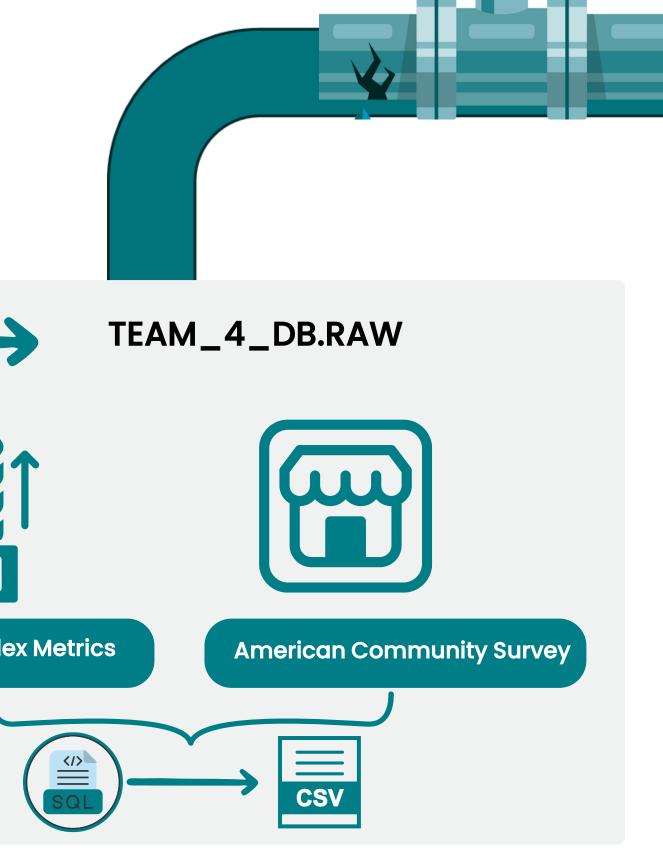
Quality of Life Index Metrics

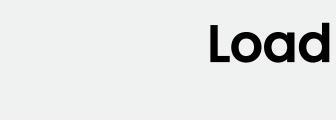
American Community Survey

Kaggl

Kaggl













Housing rental information data

Quality of Life Index Metrics



Load



```
C:\Users\sugan>snowsql -a nlb11398 -u KOALA -r KOALA_ROLE -d TEAM_4_DB -s RAW
* SnowSQL * v1.4.1
Type SQL statements or !help
KOALA#LEARNER_WH@TEAM_4_DB.RAW>USE WAREHOUSE TEAM_4_WAREHOUSE;
status
| Statement executed successfully. |
1 Row(s) produced. Time Elapsed: 0.246s
KOALA#TEAM_4_WAREHOUSE@TEAM_4_DB.RAW>SELECT CURRENT_WAREHOUSE();
  ______
| CURRENT_WAREHOUSE() |
 -----
| TEAM_4_WAREHOUSE
+----+
1 Row(s) produced. Time Elapsed: 0.233s
KOALA#TEAM_4_WAREHOUSE@TEAM_4_DB.RAW>PUT
file://C:/Users/sugan/OneDrive/Desktop/Hyper_Island/Course_8_Data_Engineering/
```





- Standardized column names
- Limited to the needed columns
- Type conversion
- Parsed JSON to structured columns

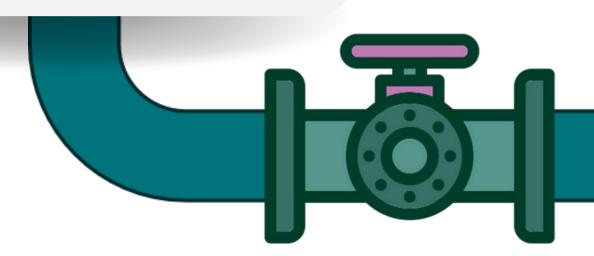
#Raw Prep

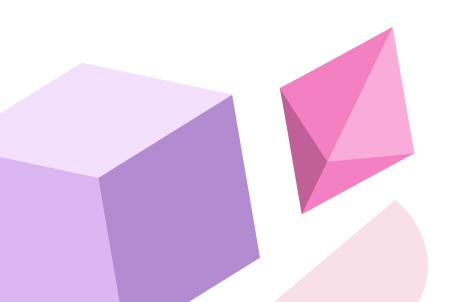


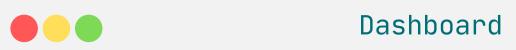


- Data Cleaning:
- Standardizing State Codes
- Removing outliers

#Raw Prep Refined



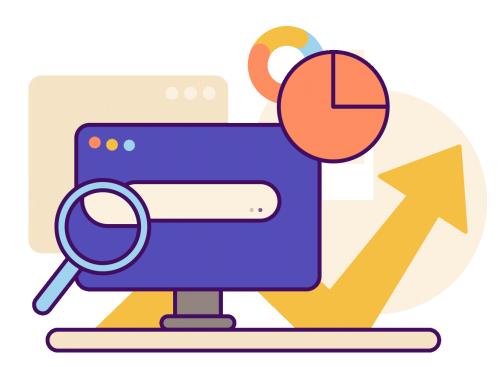




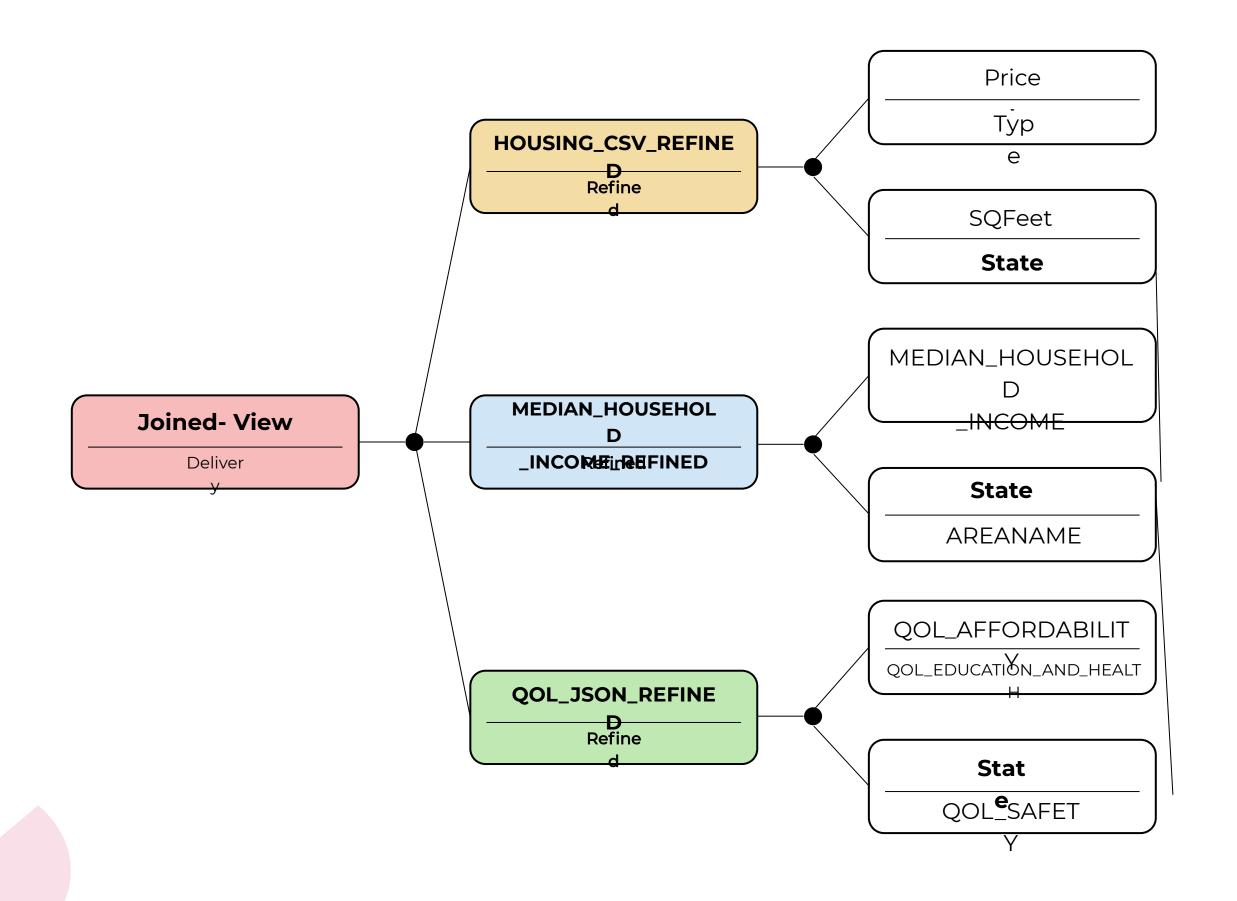


- Using Team_4_Viewer_role to create dashboard
- From refined schema joined 3 tables together for analysis.





#Raw Prep Refined Delivery



* Snowflake Dashboard

Small (<500 sqft)

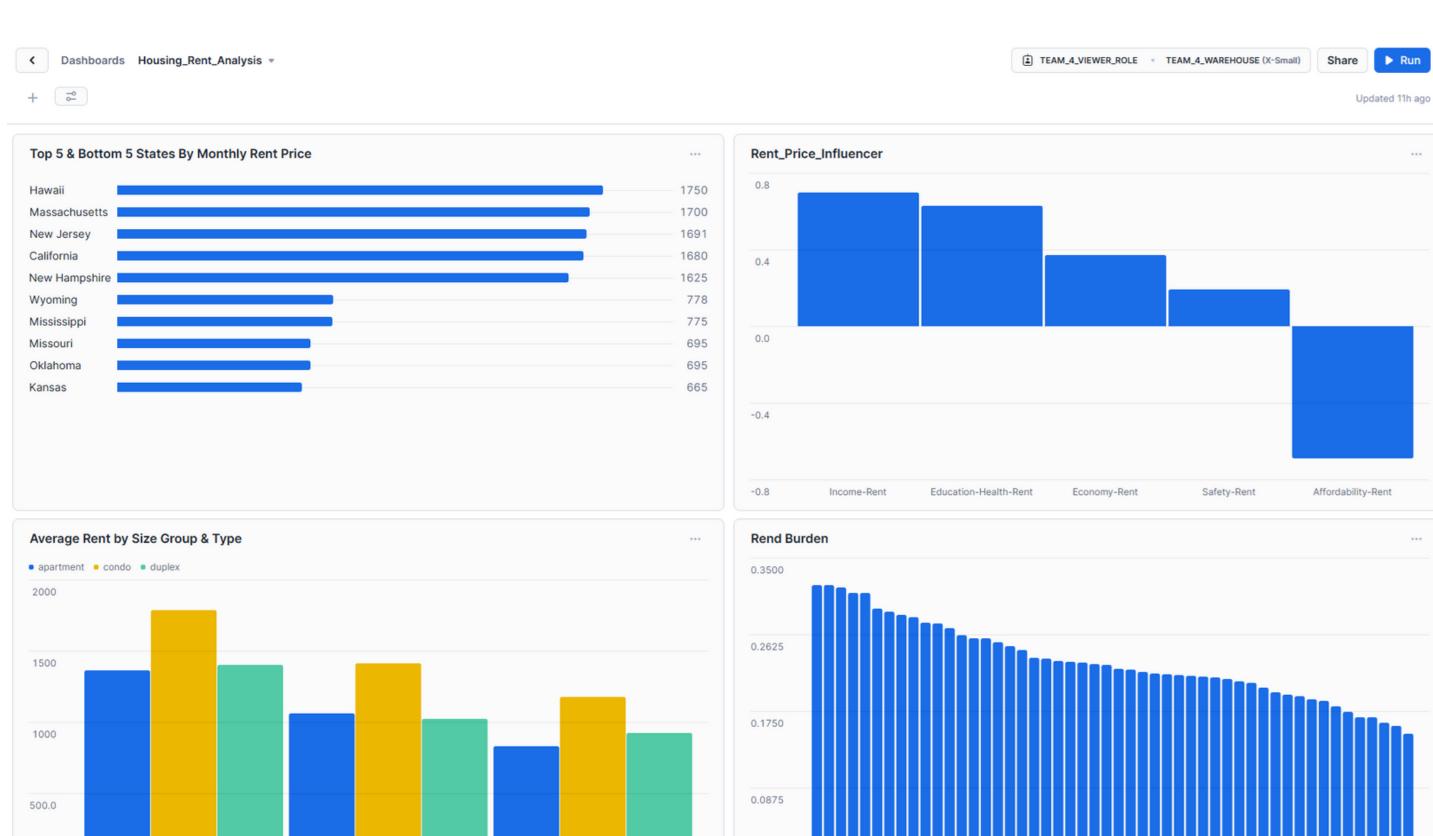
Large (>1000 sqft)

Medium (500-1000 sqft)

0.0



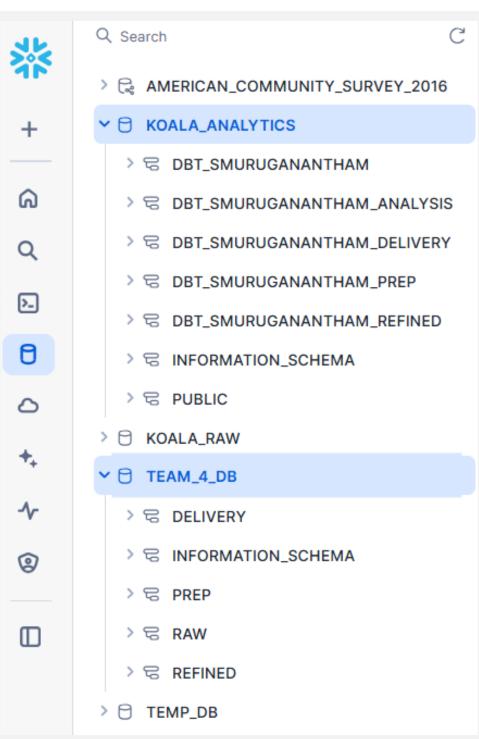
North Dakota





Integrated pipeline







dbt Snowflake Pipeline Architecture

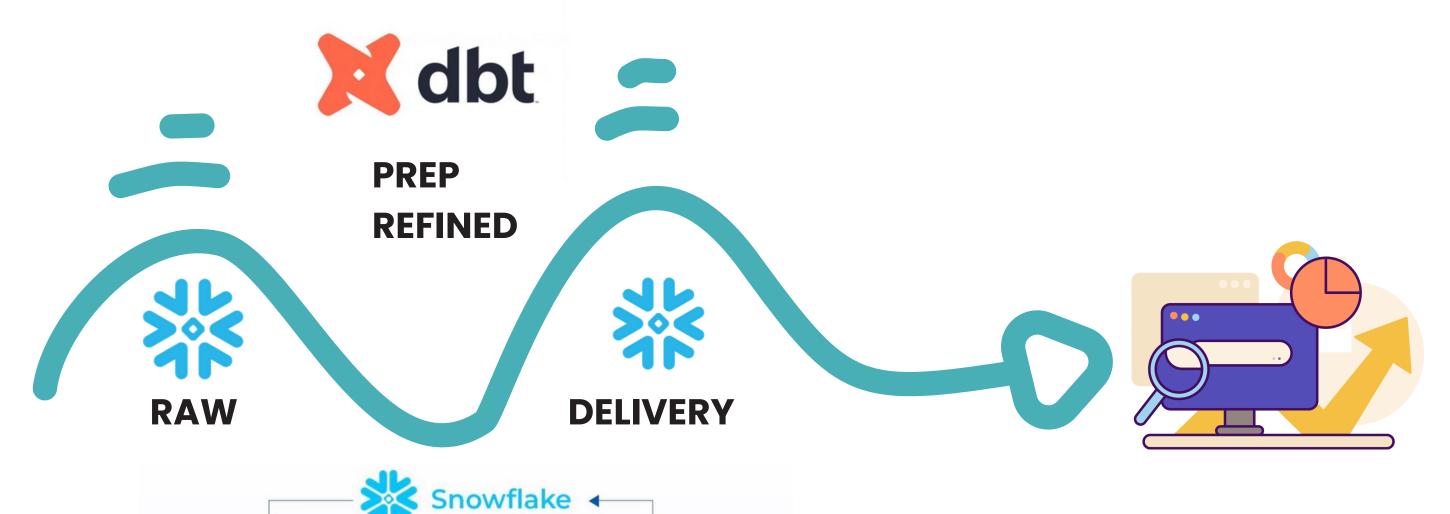


- Transformation
- Data Tests

CSV

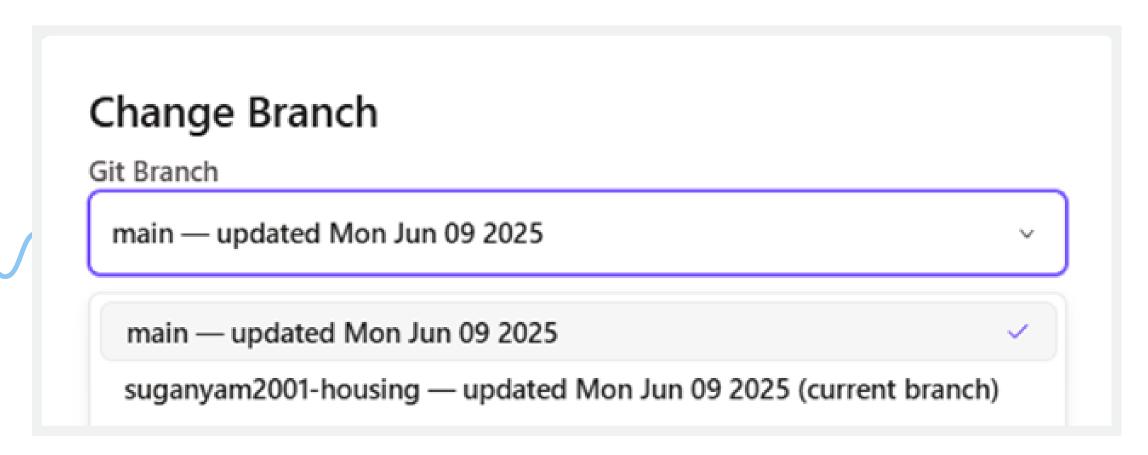
JSON

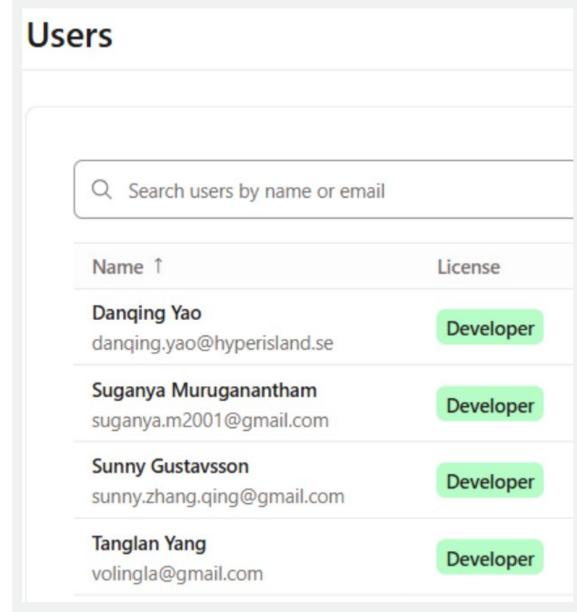
Marketplace



Transformed Data

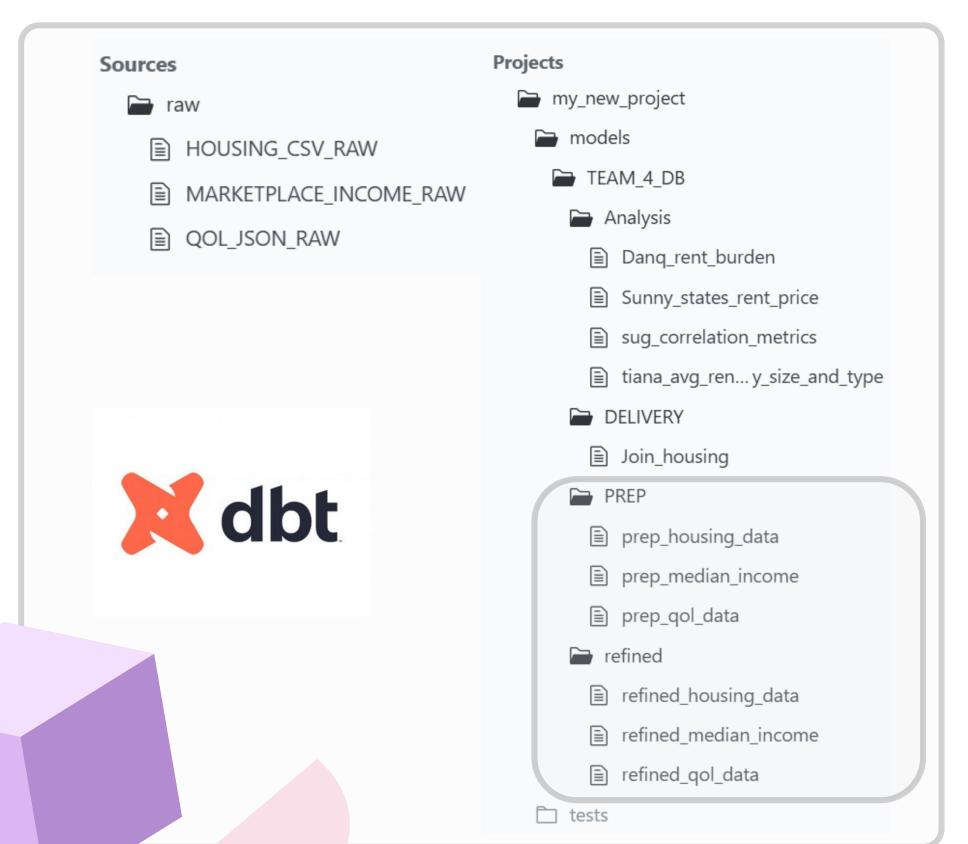
GitHub collaboration



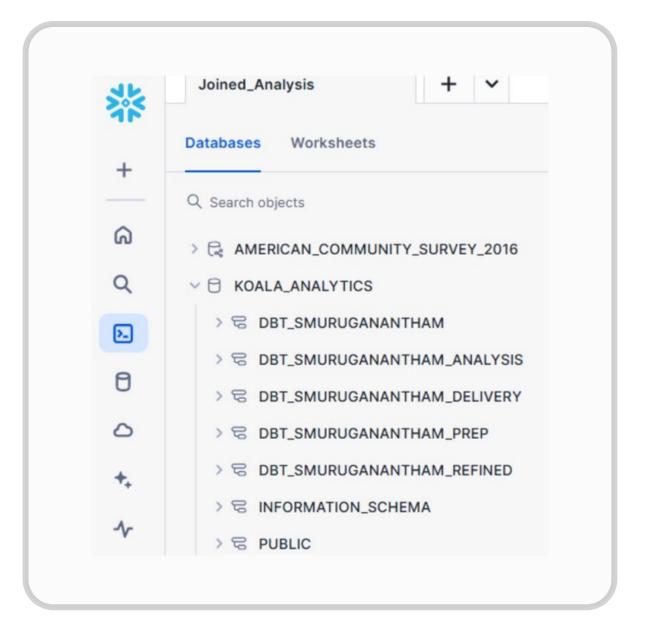


DBT Setup Data Pipeline

RAW → PREP → REFINED → DELIVERY









DAG

