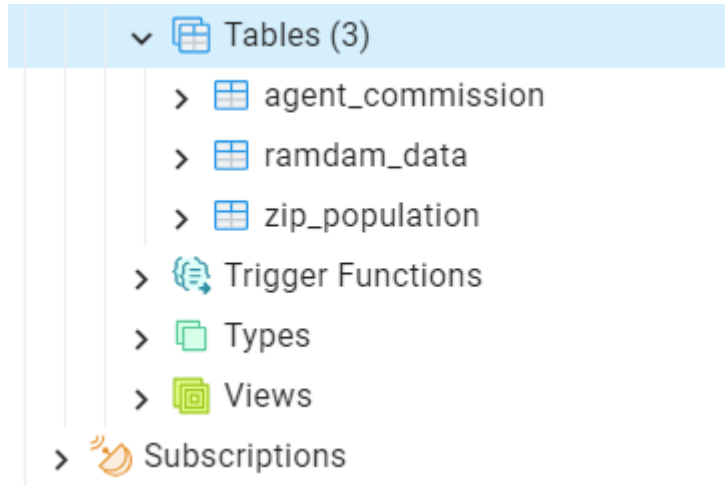


About the assignment:-

Step 1:- Create all the tables in the PostgreSQL



Step 2:- Remove the Null value from the table ramdam_data table with Non Residential

Step 3:- Remove duplicate data from zip_population table

Step 4:- Extract the percentage value from the agent_commission table

Step 5:- Merge the ramdam_data table and zip_population table on the zip column to get the population in the ramdam_data table

Step 6:- Merge the ramdam_data table with agent_commission table to get the closing rate in ramdam_data table

Step 7:- Create a new column called profit, calculate (sold price - listing price)

SQL Query:-

```







-- Update the existing table to replace "Null" with "Non Residential" in home_sub_type_1

UPDATE public.ramdam_data
SET home_sub_type_1 = 'Non Residential'
WHERE home_sub_type_1 = 'Null';

CREATE TABLE public.final_table AS(
WITH pop_help AS (
    SELECT zip, population,
           ROW_NUMBER() OVER (PARTITION BY zip ORDER BY population DESC) AS
new_pop
    FROM public.zip_population
),
agent_help as (
    SELECT
        home_sub_type,
        ROUND(CAST(SUBSTRING(agent_commission, '(\\d+(\\.\\d+)?)%') AS NUMERIC)
/ 100,2)
        AS commission_percentage
    FROM public.agent_commission
),
final_table AS (
    SELECT
        all_data.*,
        pop.population,
        agent.commission_percentage,
        "sold_price" - "listing price" AS profit
    FROM public.ramdam_data AS all_data
    LEFT JOIN agent_help AS agent ON agent.home_sub_type = all_data.home_sub_type
    LEFT JOIN pop_help AS pop ON pop.zip = all_data.zip
    WHERE new_pop = 1
)
    SELECT *
    FROM final_table
);

```

Step 8:- After running the above query get a new table called final_table with all the data.

- ✓  Tables (4)
 - >  agent_commission
 - >  final_table
 - >  ramdam_data
 - >  zip_population
- >  Trigger Functions

Step 9:- Connect the Postgres database with the Power BI

Navigator

Display Options ▾

localhost: postgres [4]

- ☐ public.agent_commission
- ☒ public.final_table
- ☐ public.ramdam_data
- ☐ public.zip_population

public.final_table

Preview downloaded on Friday

UID	address	agent_name	home_sub_type	home_
0VdnyrXqjo	7483 Pine Ln	John undefined	Residential	Mu
26KtwGjak9	724 Cedar Rd	Robert undefined	Residential	Sin
265LvdywzG	9262 Elm St	John undefined	Residential	Mu
rupx9C2Bry	5347 Main St	John undefined	Residential	Sin
EvYWQTDdBi	143 Maple Ave	Mary undefined	Residential	Mu
f5DHRLwUhr	7975 Pine Ln	Elizabeth undefined	Residential	Sin
EZqE2rlseQ	680 Pine Ln	Elizabeth undefined	Residential	Sin
6DvvoIKQ16	7213 Oak St	Robert undefined	Residential	Mu
HoYiH7bMMM	9500 Maple Ave	Mary undefined	Residential	Mu
yMYS93vKFG	1804 Cedar Rd	Linda undefined	Residential	Sin
AHFZ6jFmyq	8088 Elm St	James undefined	Residential	Mu
h9VT63XqOR	6290 Sunset Blvd	James undefined	Residential	Sin
PRJSORddix	2128 Main St	Robert undefined	Residential	Sin
Ce9vYGhHWk	1632 Lakeview Dr	Jennifer undefined	Residential	Mu
TZSOKITSjk	3447 Sunset Blvd	Michael undefined	Residential	Sin
1RwqxCF5MW	1761 Oak St	Patricia undefined	Residential	Mu
O5vrQ5j1zR	5470 Sunset Blvd	John undefined	Residential	Sin
emnVHhSrCT	5568 Pine Ln	Mary undefined	Residential	Sin
KDifBdZ5Tg	4753 Maple Ave	Michael undefined	Residential	Sin
RQJFxaEPPw	5238 Pine Ln	Robert undefined	Residential	Mu
R1U2761cEO	7136 Maple Ave	Patricia undefined	Residential	Mu
m2SJLWChF	9146 Pine Ln	Linda undefined	Residential	Mu

Select Related Tables

Load

Transform Data

Cancel

Step 10:- Export all the dashboards into pdf.

Pdf link:- [ramdam_data_insight](#)

The outcome of the task:-

- We can see in some cities the sold price is higher than the listing price means the property demand is high.
- High demand of Non residential property
- Property in Akron and Dayton make more profit and Columbus and Cincinnati make loss.
- Land and Rental properties make a profit and Residential and commercial make a loss.
- Patricia, Robert, and Jennifer are the top 3 Agents who make a good profit in Land, Rental, and Residential property types.

My learning from this task:-

- To know about the Property Industry.
- The clearing rate is applicable for both buyer and seller. For the buyer, the clearing rate is added up to the sold price, and for the seller, the clearing amount is subtracted from the sold price.
- The listing price is the price at which the seller demands the minimum price of the property.