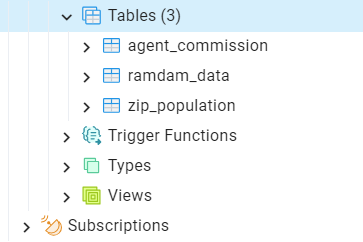
**About the assignment:-**

**Step 1:- Create all the tables in the PostgreSQL**

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**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**

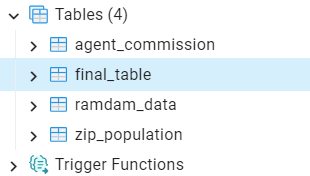
**Step 6:- Merge the ramdam\_data table with agent\_commission table to get the closing rate in ramdam\_data table**

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

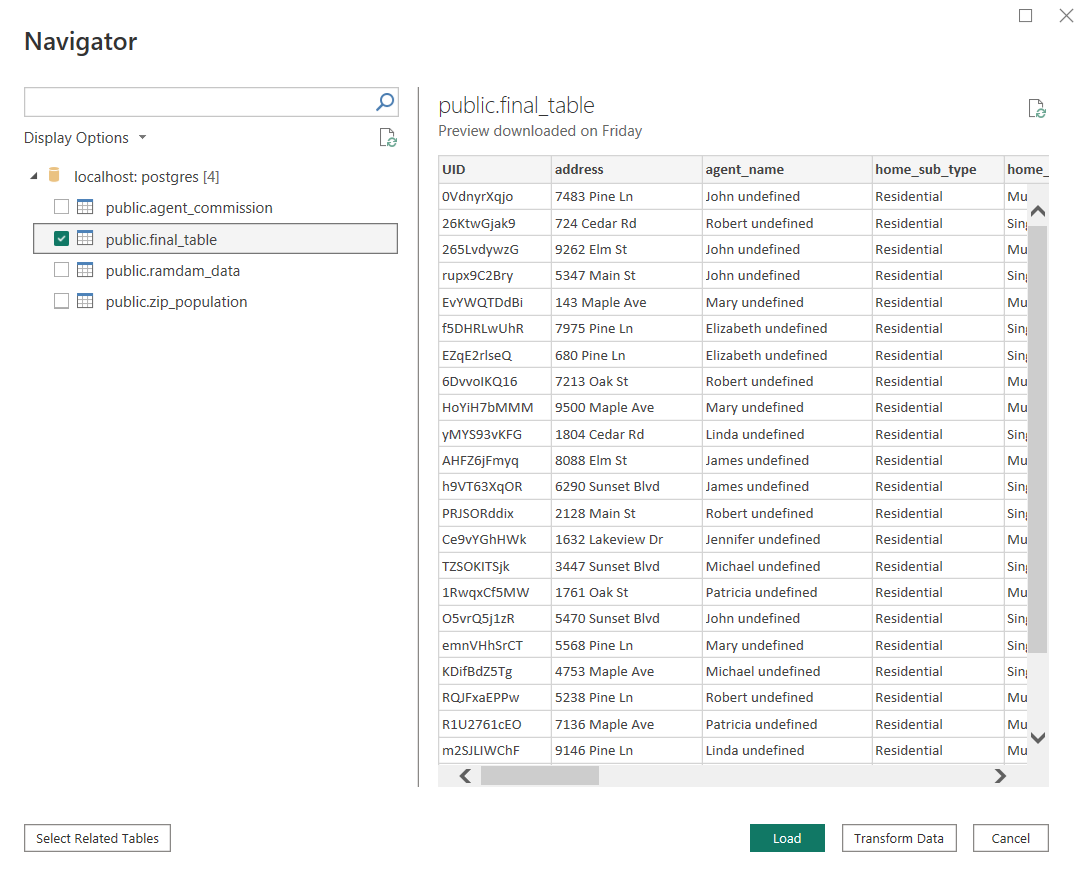
**SQL Query:-**

| -- 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.**

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

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**Step 10:- Export all the dashboards into pdf.**

**Pdf link:-** [ramdam\_data\_insight.pdf](https://drive.google.com/file/d/1OmNhzkT_iJg_XMaVwaEUJ3LHl4_oCQ61/view?usp=sharing)

**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.**