First Part of the Project (using Postgresql)

Here, I am writing a brief explanation about my work and how I did all these things. In this brief description I am trying to explain my Postgresql work.

- Before going into digging something we need to download the data from the repository. Now, you have to open your postgresql and open tar file.

- There are seven files, out of seven I used six.
- First I combine three files: product, productcategory and productsubcategory.
- The output of the below query download.

```
SELECT
    p.productkey,
    p.englishproductname AS productname,
    c.englishproductcategoryname AS category,
    s.englishproductsubcategoryname AS subcategory
FROM
    productcategory AS c
    INNER JOIN productsubcategory AS s
        ON c.productcategorykey = s.productcategorykey
    INNER JOIN product AS p
        ON s.productsubcategorykey = p.productsubcategorykey;
```

- Second, I used Internetsales table.
- Download below query output.

```
SELECT
    productkey,
    orderdatekey AS datekey,
    orderdate AS date,
    customerkey,
    salesamount,
    shipdate
FROM
    internetsales
WHERE
    EXTRACT(YEAR FROM orderdate) IN (2021, 2022, 2023);
```

- Third, I combine customer and geography tables.
- Download below query output.

```sql
SELECT
    c.customerkey,
    CASE
        WHEN c.middlename IS NULL AND c.lastname IS NULL THEN
c.firstname
        WHEN c.middlename IS NULL THEN CONCAT(c.firstname, ' ',
c.lastname)
        WHEN c.lastname IS NULL THEN CONCAT(c.firstname, ' ',
c.middlename)
        ELSE CONCAT(c.firstname, ' ', c.middlename, ' ', c.lastname)
    END AS fullname,
    c.datefirstpurchase,
    g.city,
    g.stateprovincename AS provincename,
    g.englishcountryregionname AS country
FROM
    customer AS c
    LEFT JOIN geography AS g
        ON c.geographykey = g.geographykey;
```

- Now upload all these three csv Files in Tableau Desktop.
- There is one more file salesbudget.csv. That also uploads to tableau desktop.

Second Part of the Project (Using Tableau Desktop)

- Now I upload all these files which I processed by sql in tableau desktop.
- Now, I create a relationship between internetsales table with all other files.
- Now visualization has started.
- I have already added the PDF of the problem statement so you go through it and understand much better.
- Now I only show you my DashBoard. This Link.