Data Visualization Chatbot Support Document

What are some Queries that can be used in the Visualization Window

Dataset:

superstore_dataset2011-2015.csv

Main chatbot window Query to reach the Visualization Window:

superstore_dataset2011-2015 data

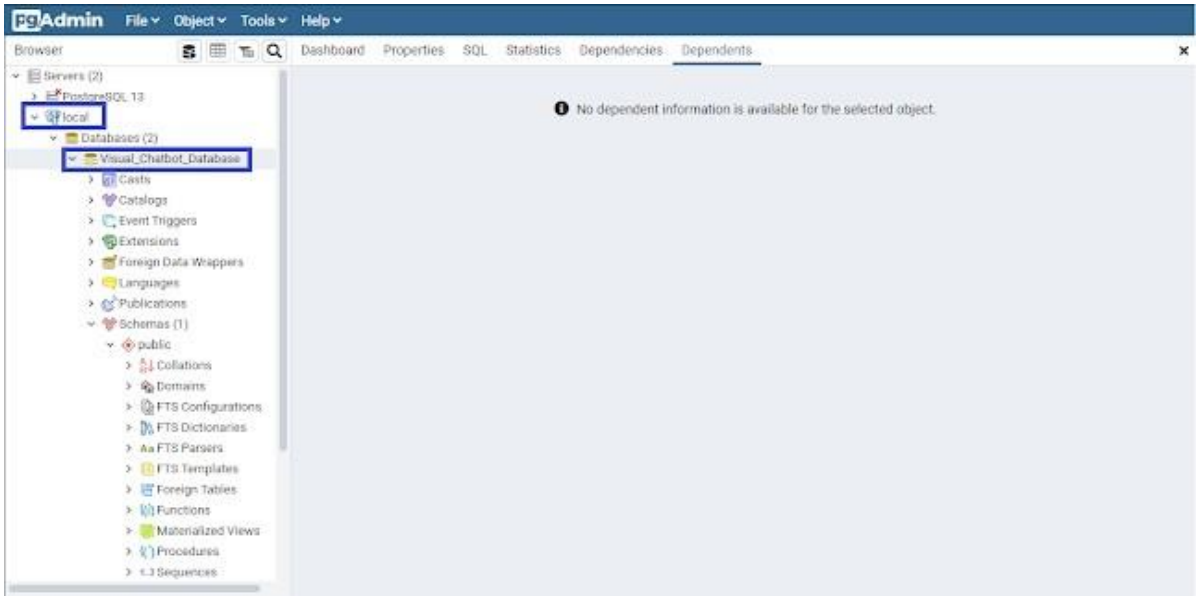
Visualization Window Queries Possible for this Dataset:

- Pairplot country vs profit
- Pairplot country vs profit sales
- Pairplot country region vs profit sales
- Bar_chart country vs sales
- Bar_chart country region vs sales profit
- Pie_chart ship_mode
- Pie_chart region
- Pie_chart region ship_mode
- Scatterplot country vs total
- Scatterplot country region vs profit sales
- country wise sales
- country wise profit where region is Africa
- country wise profit distribution where region is Africa
- country wise sales distribution
- sales by country
- sales by country where region is Africa
- sales by country distribution

Importing your dataset

- A dataset can be imported in **csv (Comma Separated Value)** format. The headers of the csv must not contain any spaces or special characters **except _ (underscore)**.

- Once the data is imported it is stored in a locally hosted **postgresql Database** titled "**Visual_Chatbot_Database**"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Servers (2)
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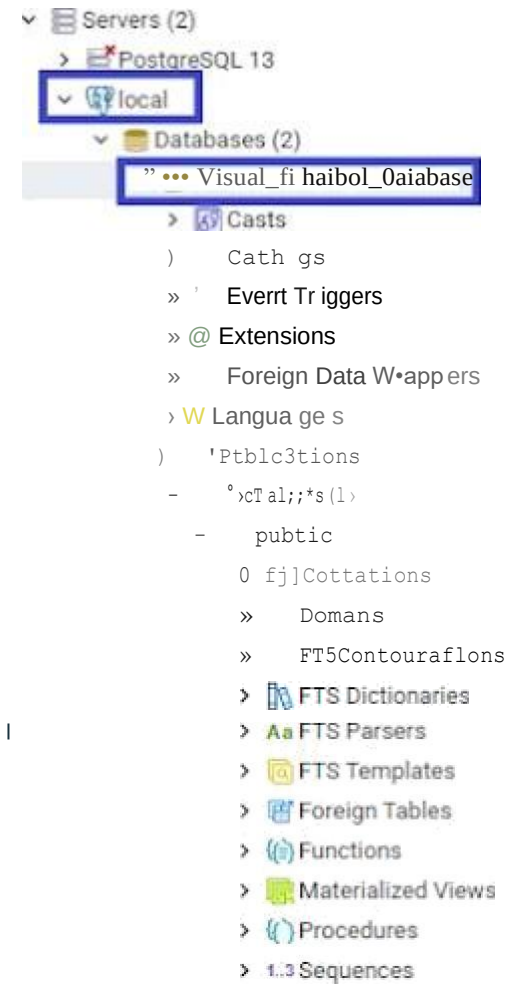
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Sequences

Administrator Configuring and Setting up CSV files of their own choice

- An admin can set up their own Database [1] files using either of these methods:

1. Create their own Table [2] using SQL commands:

Once this Table is created inside the Database add the name of the Database in db.py as follows:

```
database = "nameofdatabase"
```

Now add the **intents** in the **intents.json** file manually in the following format. **Note** the use of a comma at the end of intents.json before appending this new block of json data.

```
,{

    "tag" : "Tablename",

    "patterns" : [
```

```
        "Tablename data",


         "Show me a visualization of Tablename"

    ],       "responses" :[

        "Tablename_DataVisual_Create"

    ]

}
```

Additionally, store the name of the Table in the file called imported_file.txt by appending it to the end of the file by separating it with a space character.

Tablename

2. Use the get_csvtodb function (which can be found at [3]) to upload the CSV to the database using the function defined in db.py

Now add the **intents** in the **intents.json** file manually in the following format. **Note** the use of a comma at the end of intents.json before appending this new block of json data.

```
,{

      "tag" :"Tablename",

      "patterns" :[

        "Tablename data",


         "Show me a visualization of Tablename"

     ],       "responses" :[
```

```
        "Tablename_DataVisual_Create"


    ]


}
```

Additionally, store the name of the Table in the file called imported_file.txt by appending it to the end of the file by separating it with a space character.

Tablename

But before these steps we need to **set up** the **password** using **keyring module** or other methods since plain text directly in the code is not very secure.

To install keyring use either of the commands given below

```
python -m pip install keyring

pip install keyring

pip3 install keyring
```

To set up a keyring password use

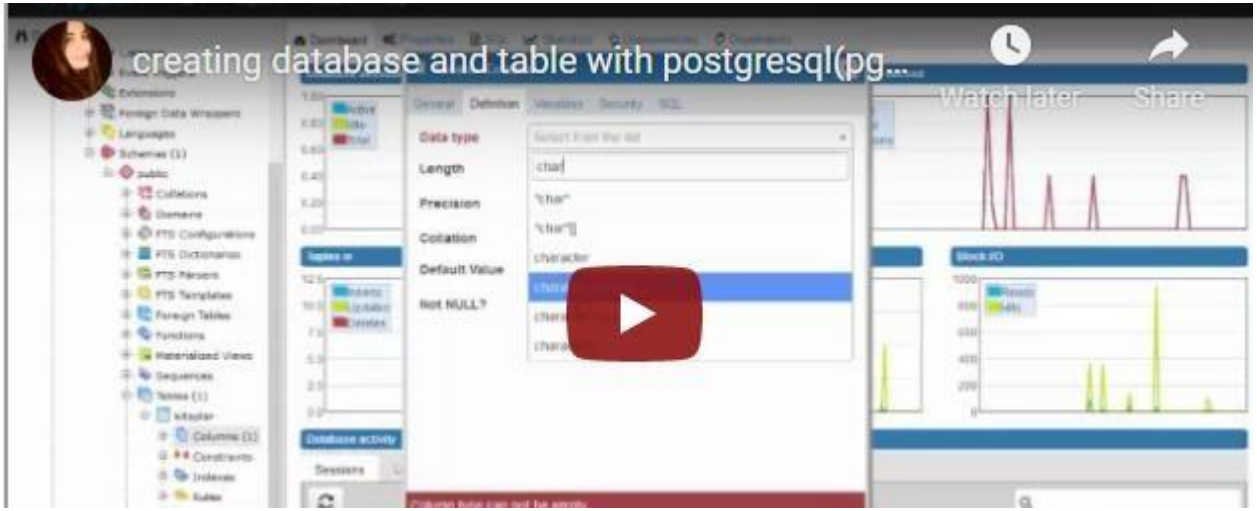
```
$ python

>>>keyring.set_password("system","username","password")
```

To learn more about keyring passwords [4]

References:

Installation and Database creation help videos:

[1]



[2]

db.py Script
[3] DataVisualizationChatbot/db.py at main · rahulnoronha/DataVisualizationChatbot (github.com)

Keyring help

[4] Welcome to keyring documentation! — keyring 23.0.2.dev8+gfe93b37.d20210520 documentation

Thanks for reading!

You can connect with me at:
GitHub
LinkedIn
Email