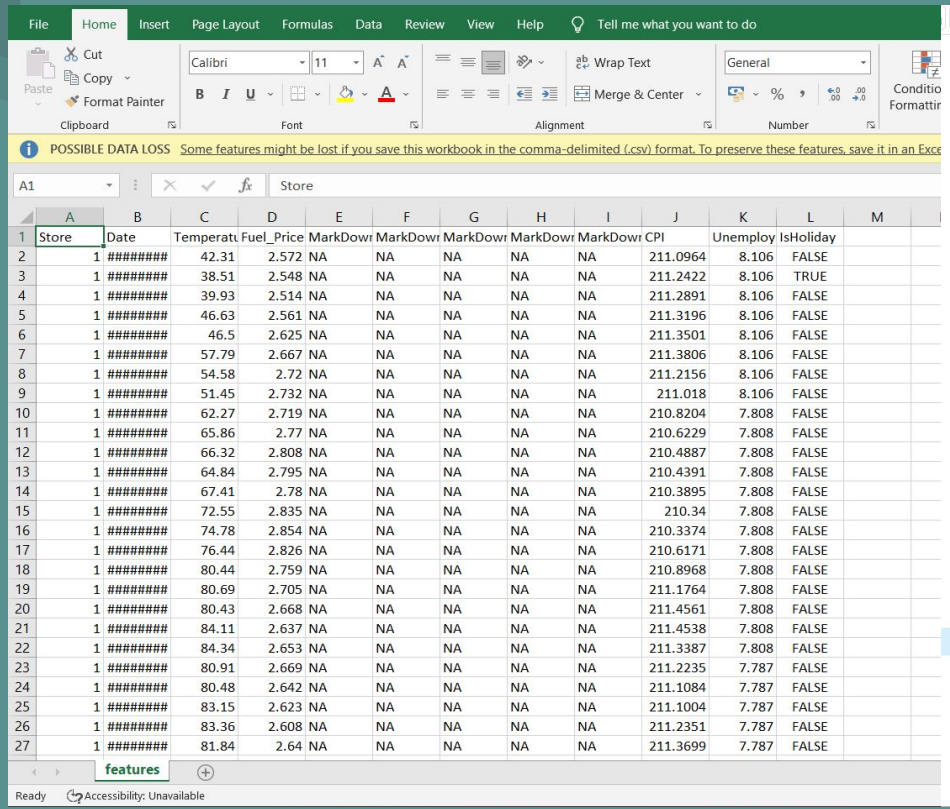
QUERYING OF WALMART SALES DATABASE USING PostgreSQL

Importing .CSV data of walmart_sales into postgreSQL

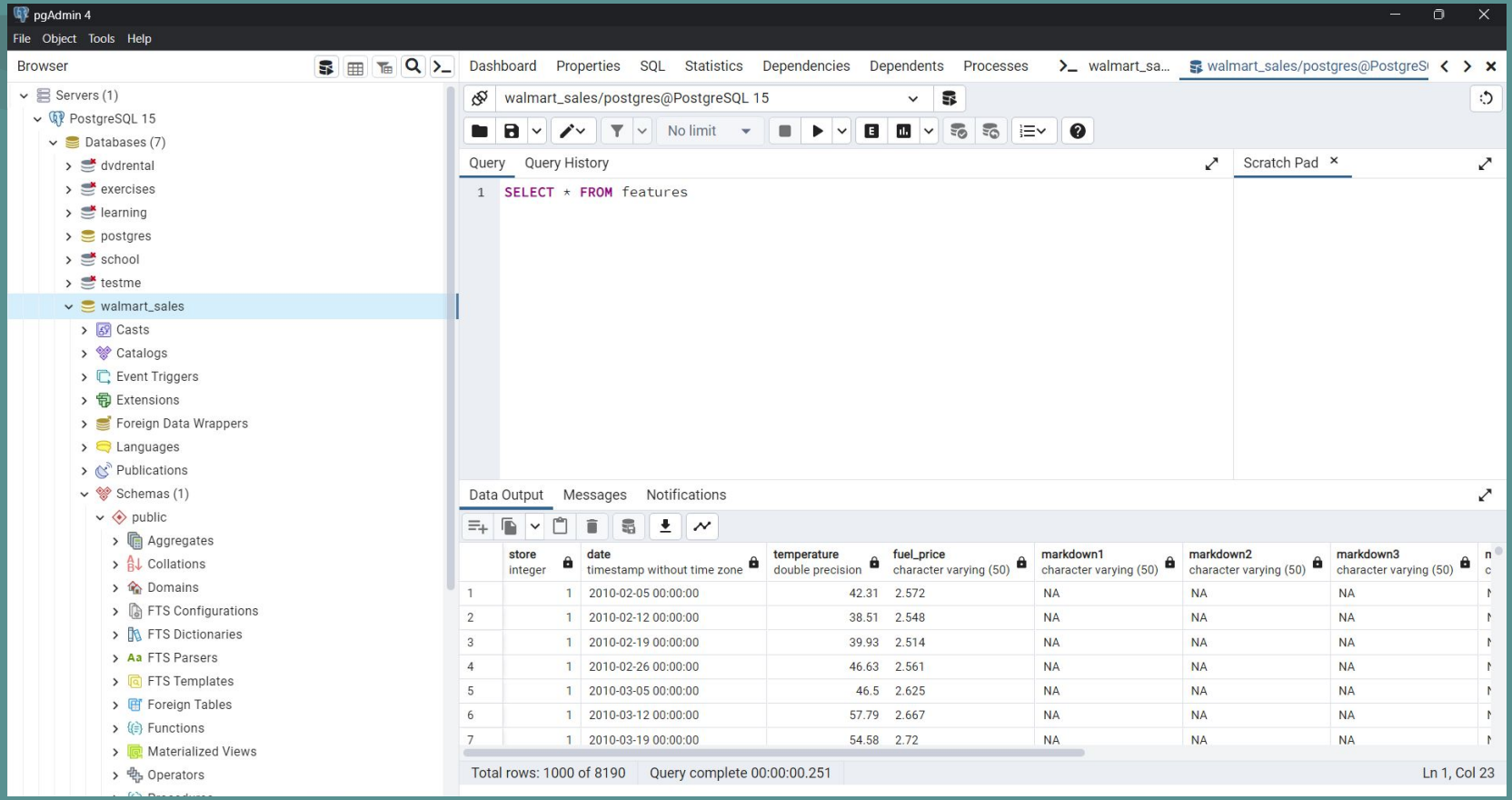


Store	Date	Temperatu	Fuel_Price	MarkDown	MarkDown	MarkDown	MarkDown	MarkDown	CPI	Unemploy	IsHoliday
1	########	42.31	2.572	NA	NA	NA	NA	NA	211.0964	8.106	FALSE
1	########	38.51	2.548	NA	NA	NA	NA	NA	211.2422	8.106	TRUE
1	########	39.93	2.514	NA	NA	NA	NA	NA	211.2891	8.106	FALSE
1	########	46.63	2.561	NA	NA	NA	NA	NA	211.3196	8.106	FALSE
1	########	46.5	2.625	NA	NA	NA	NA	NA	211.3501	8.106	FALSE
1	########	57.79	2.667	NA	NA	NA	NA	NA	211.3806	8.106	FALSE
1	########	54.58	2.72	NA	NA	NA	NA	NA	211.2156	8.106	FALSE
1	########	51.45	2.732	NA	NA	NA	NA	NA	211.018	8.106	FALSE
1	########	62.27	2.719	NA	NA	NA	NA	NA	210.8204	7.808	FALSE
1	########	65.86	2.77	NA	NA	NA	NA	NA	210.6229	7.808	FALSE
1	########	66.32	2.808	NA	NA	NA	NA	NA	210.4887	7.808	FALSE
1	########	64.84	2.795	NA	NA	NA	NA	NA	210.4391	7.808	FALSE
1	########	67.41	2.78	NA	NA	NA	NA	NA	210.3895	7.808	FALSE
1	########	72.55	2.835	NA	NA	NA	NA	NA	210.34	7.808	FALSE
1	########	74.78	2.854	NA	NA	NA	NA	NA	210.3374	7.808	FALSE
1	########	76.44	2.826	NA	NA	NA	NA	NA	210.6171	7.808	FALSE
1	########	80.44	2.759	NA	NA	NA	NA	NA	210.8968	7.808	FALSE
1	########	80.69	2.705	NA	NA	NA	NA	NA	211.1764	7.808	FALSE
1	########	80.43	2.668	NA	NA	NA	NA	NA	211.4561	7.808	FALSE
1	########	84.11	2.637	NA	NA	NA	NA	NA	211.4538	7.808	FALSE
1	########	84.34	2.653	NA	NA	NA	NA	NA	211.3387	7.808	FALSE
1	########	80.91	2.669	NA	NA	NA	NA	NA	211.2235	7.787	FALSE
1	########	80.48	2.642	NA	NA	NA	NA	NA	211.1084	7.787	FALSE
1	########	83.15	2.623	NA	NA	NA	NA	NA	211.1004	7.787	FALSE
1	########	83.36	2.608	NA	NA	NA	NA	NA	211.2351	7.787	FALSE
1	########	81.84	2.64	NA	NA	NA	NA	NA	211.3699	7.787	FALSE

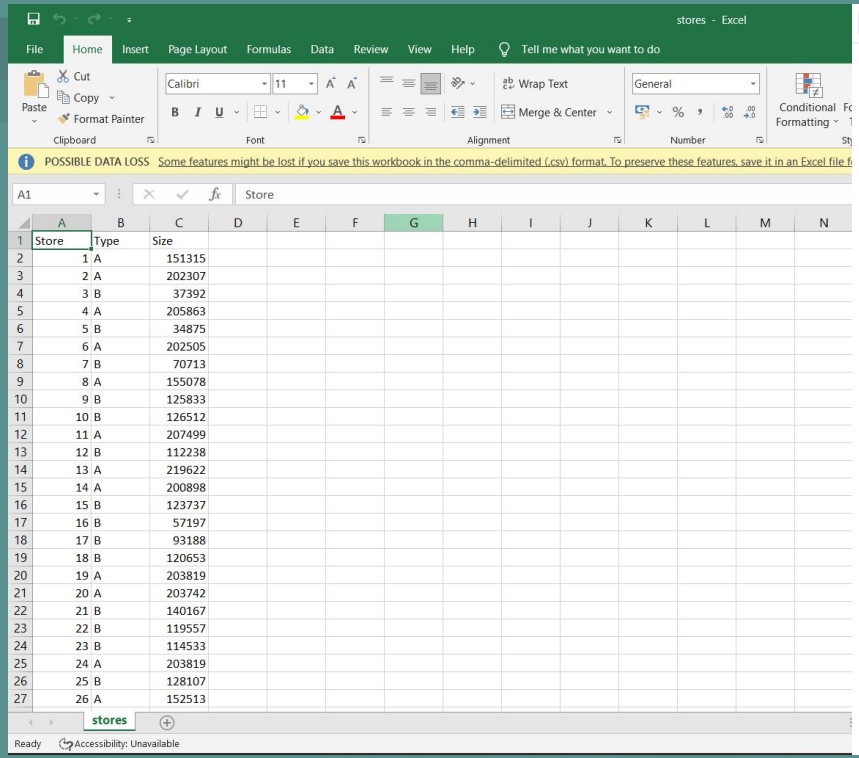
```
CREATE TABLE features(
    Store INTEGER,
    Date TIMESTAMP,
    Temperature float,
    Fuel_price VARCHAR(50),
    MarkDown1 VARCHAR(50),
    MarkDown2 VARCHAR(50),
    MarkDown3 VARCHAR(50),
    MarkDown4 VARCHAR(50),
    MarkDown5 VARCHAR(50),
    CPI VARCHAR(50),
    Unemployment VARCHAR(50),
    IsHoliday boolean
)
```

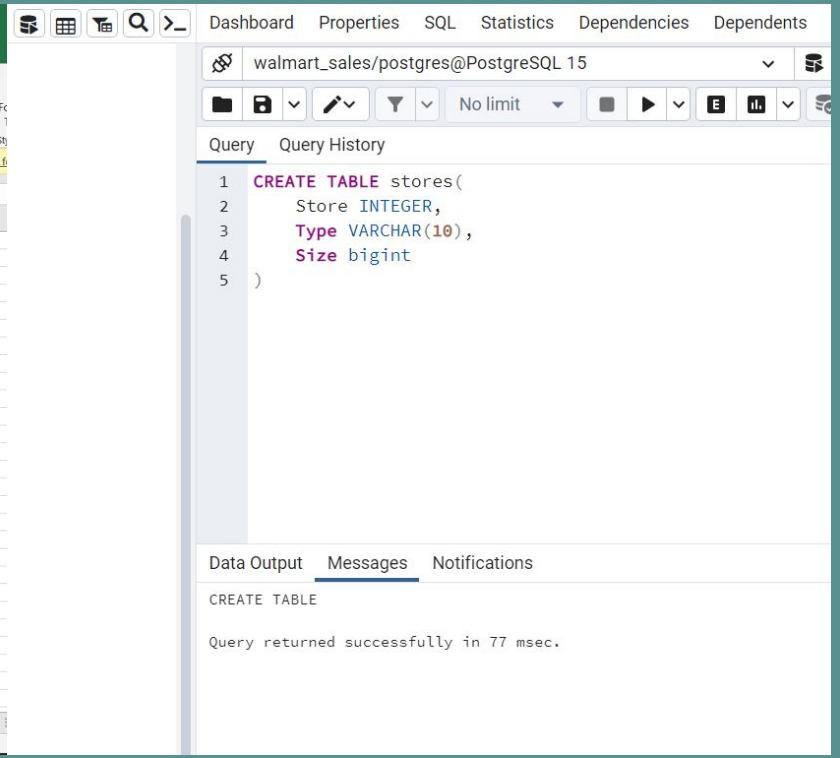
```
CREATE TABLE

Query returned successfully in 58 msec.
```

Importing .CSV data of walmart_sales into postgreSQL

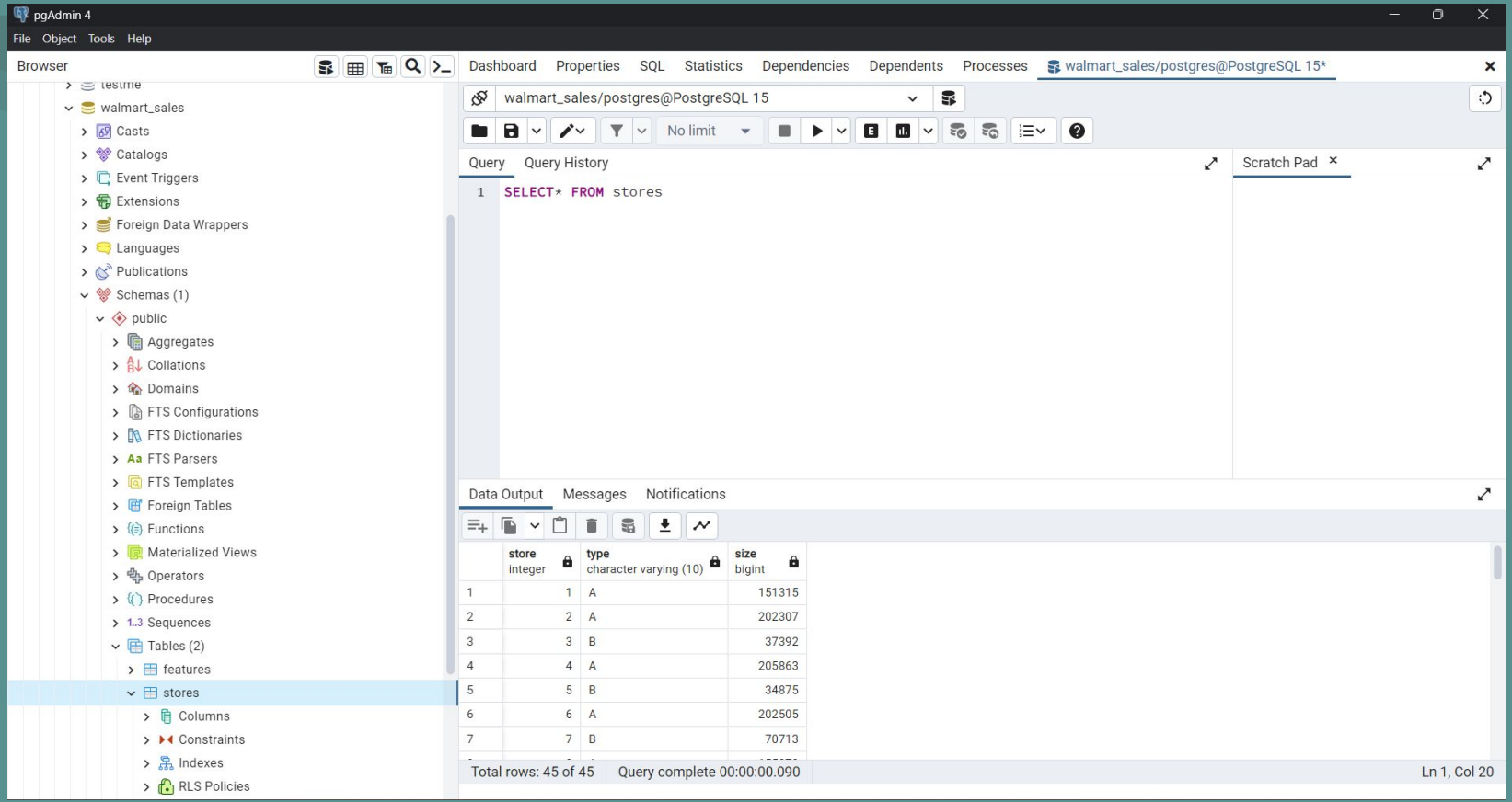


Importing .CSV data of walmart_sales into postgreSQL

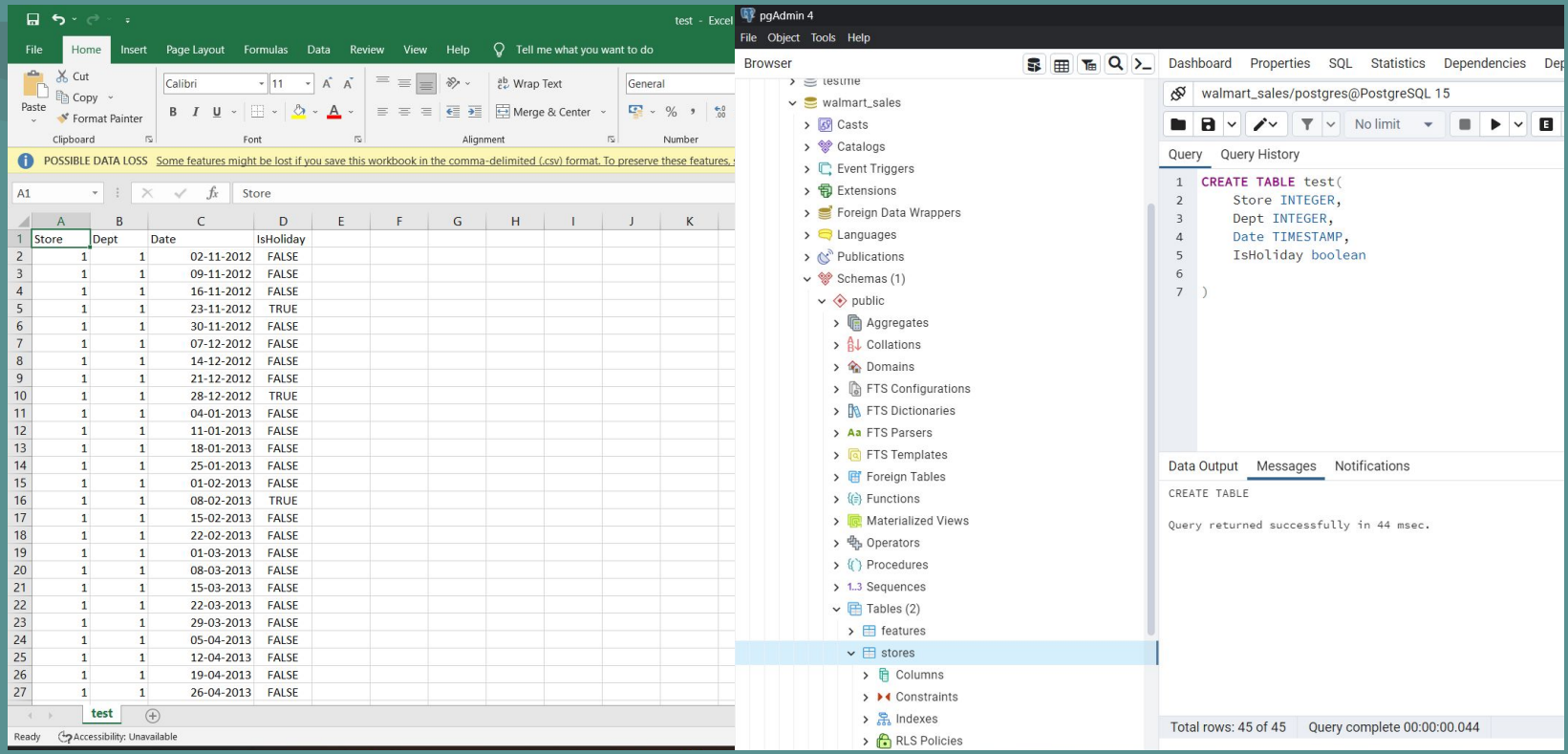




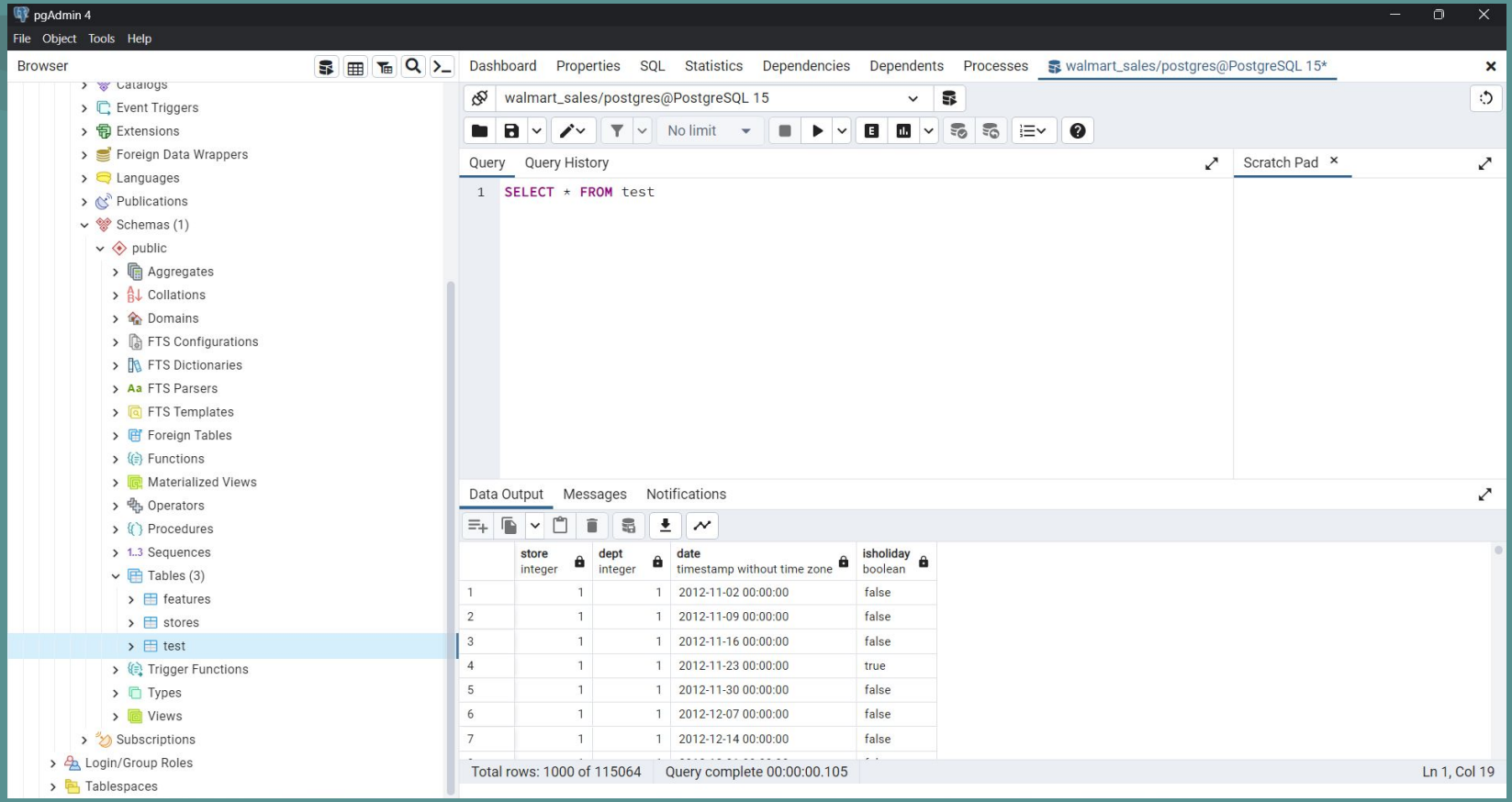
Importing .CSV data of walmart_sales into postgreSQL



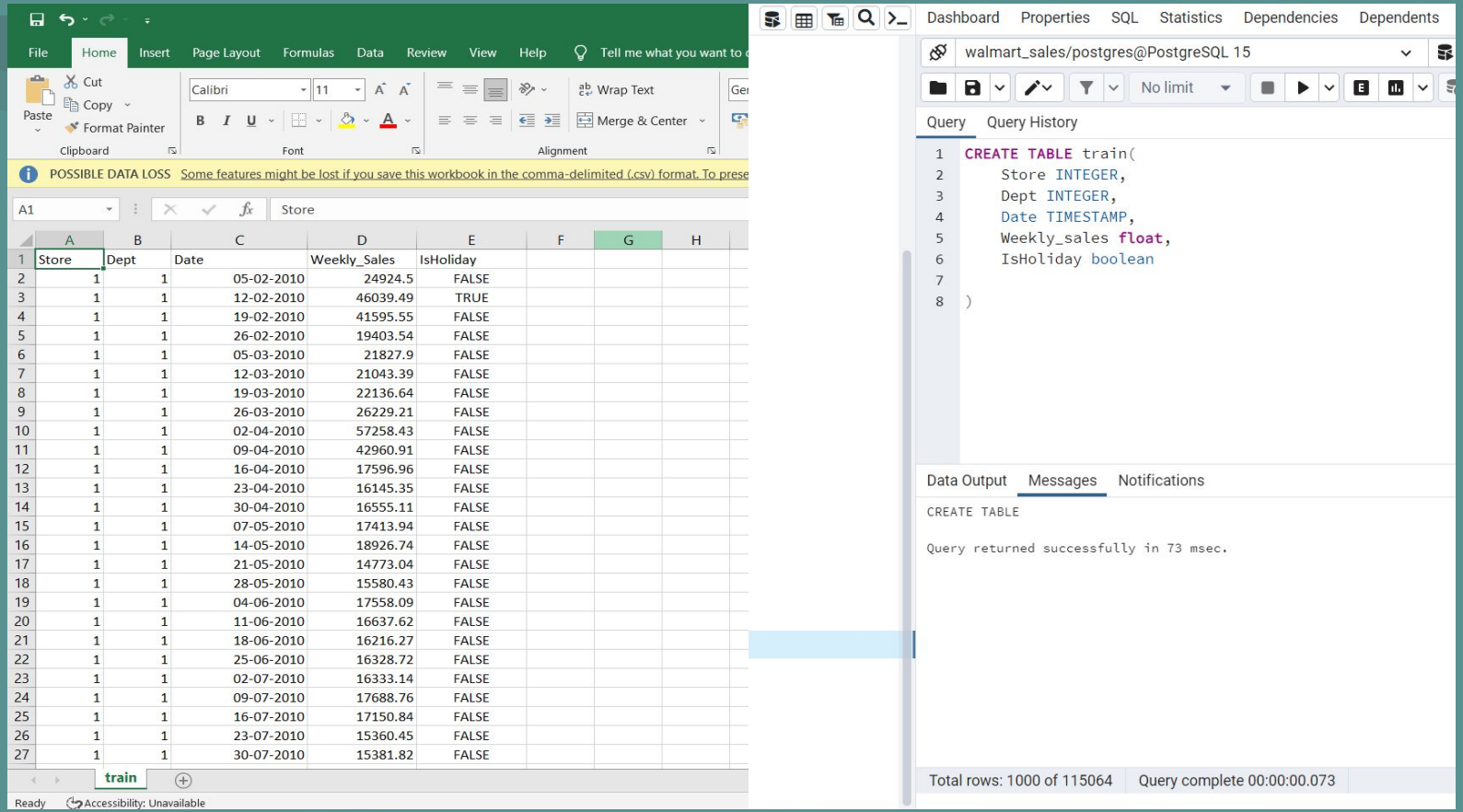
Importing .CSV data of walmart_sales into postgreSQL



Importing .CSV data of walmart_sales into postgreSQL



Importing .CSV data of walmart_sales into postgreSQL



File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to

Cut Copy Format Painter Paste Clipboard

Calibri 11 Font

Wrap Text Merge & Center Alignment

POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To prese

A1 Store

	A	B	C	D	E
1	Store	Dept	Date	Weekly_Sales	IsHoliday
2	1	1	05-02-2010	24924.5	FALSE
3	1	1	12-02-2010	46039.49	TRUE
4	1	1	19-02-2010	41595.55	FALSE
5	1	1	26-02-2010	19403.54	FALSE
6	1	1	05-03-2010	21827.9	FALSE
7	1	1	12-03-2010	21043.39	FALSE
8	1	1	19-03-2010	22136.64	FALSE
9	1	1	26-03-2010	26229.21	FALSE
10	1	1	02-04-2010	57258.43	FALSE
11	1	1	09-04-2010	42960.91	FALSE
12	1	1	16-04-2010	17596.96	FALSE
13	1	1	23-04-2010	16145.35	FALSE
14	1	1	30-04-2010	16555.11	FALSE
15	1	1	07-05-2010	17413.94	FALSE
16	1	1	14-05-2010	18926.74	FALSE
17	1	1	21-05-2010	14773.04	FALSE
18	1	1	28-05-2010	15580.43	FALSE
19	1	1	04-06-2010	17558.09	FALSE
20	1	1	11-06-2010	16637.62	FALSE
21	1	1	18-06-2010	16216.27	FALSE
22	1	1	25-06-2010	16328.72	FALSE
23	1	1	02-07-2010	16333.14	FALSE
24	1	1	09-07-2010	17688.76	FALSE
25	1	1	16-07-2010	17150.84	FALSE
26	1	1	23-07-2010	15360.45	FALSE
27	1	1	30-07-2010	15381.82	FALSE

train

Ready Accessibility: Unavailable

Dashboard Properties SQL Statistics Dependencies Dependents

walmart_sales/postgres@PostgreSQL 15

No limit

Query Query History

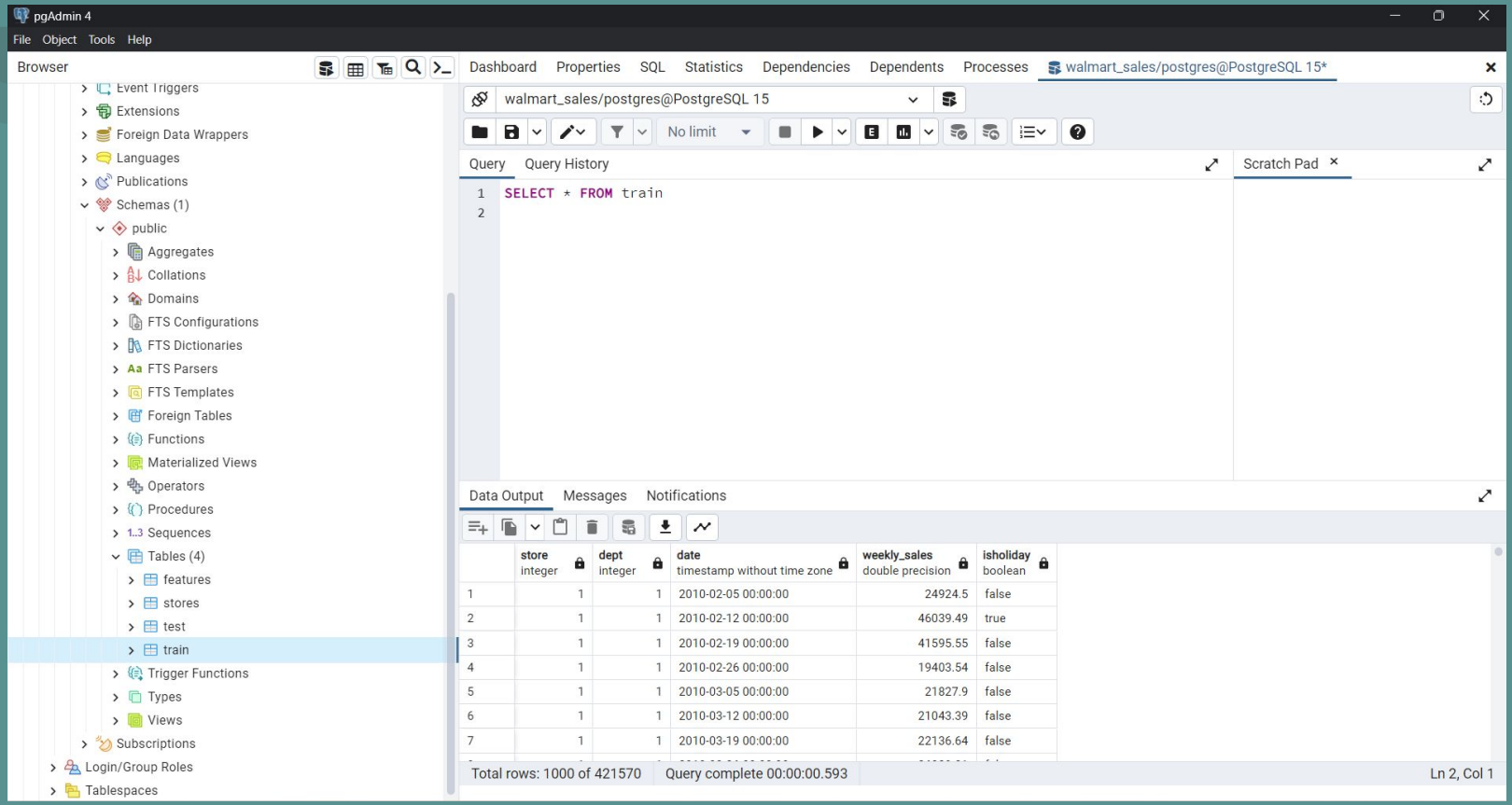
```
1  CREATE TABLE train(
2      Store INTEGER,
3      Dept INTEGER,
4      Date TIMESTAMP,
5      Weekly_sales float,
6      IsHoliday boolean
7
8  )
```

Data Output Messages Notifications

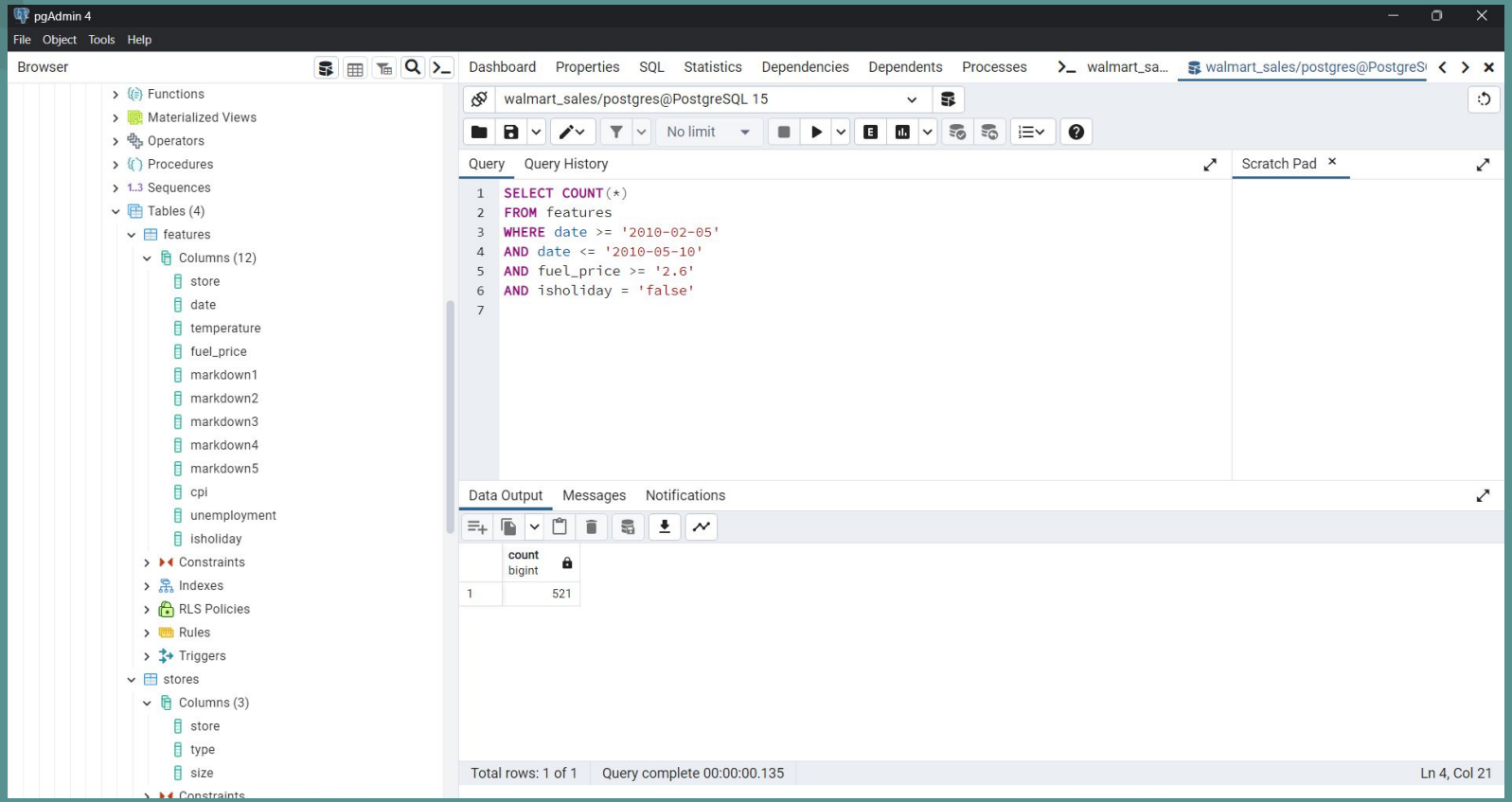
```
CREATE TABLE

Query returned successfully in 73 msec.
```

Total rows: 1000 of 115064 Query complete 00:00:00.073

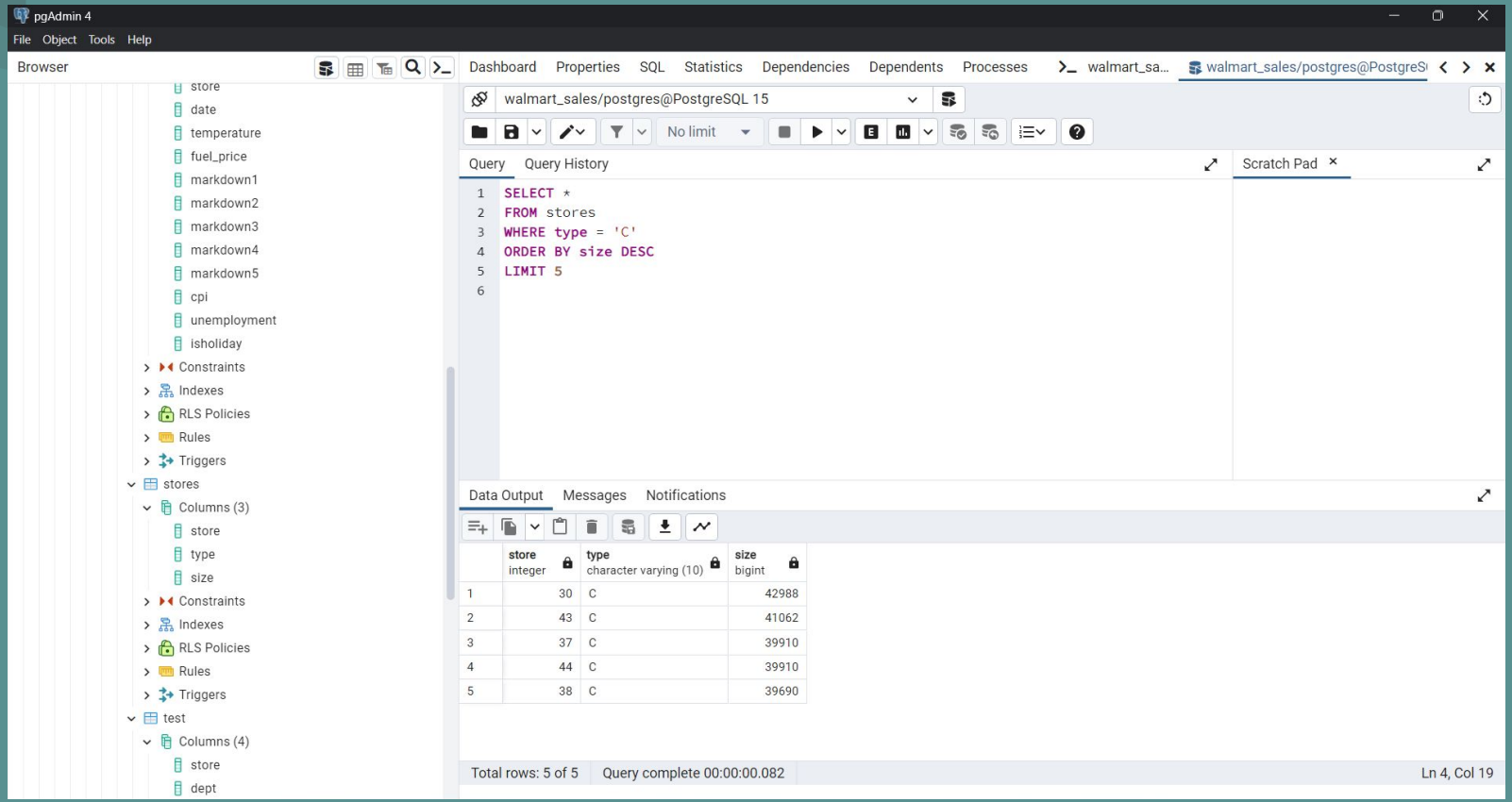
Importing .CSV data of walmart_sales into postgreSQL



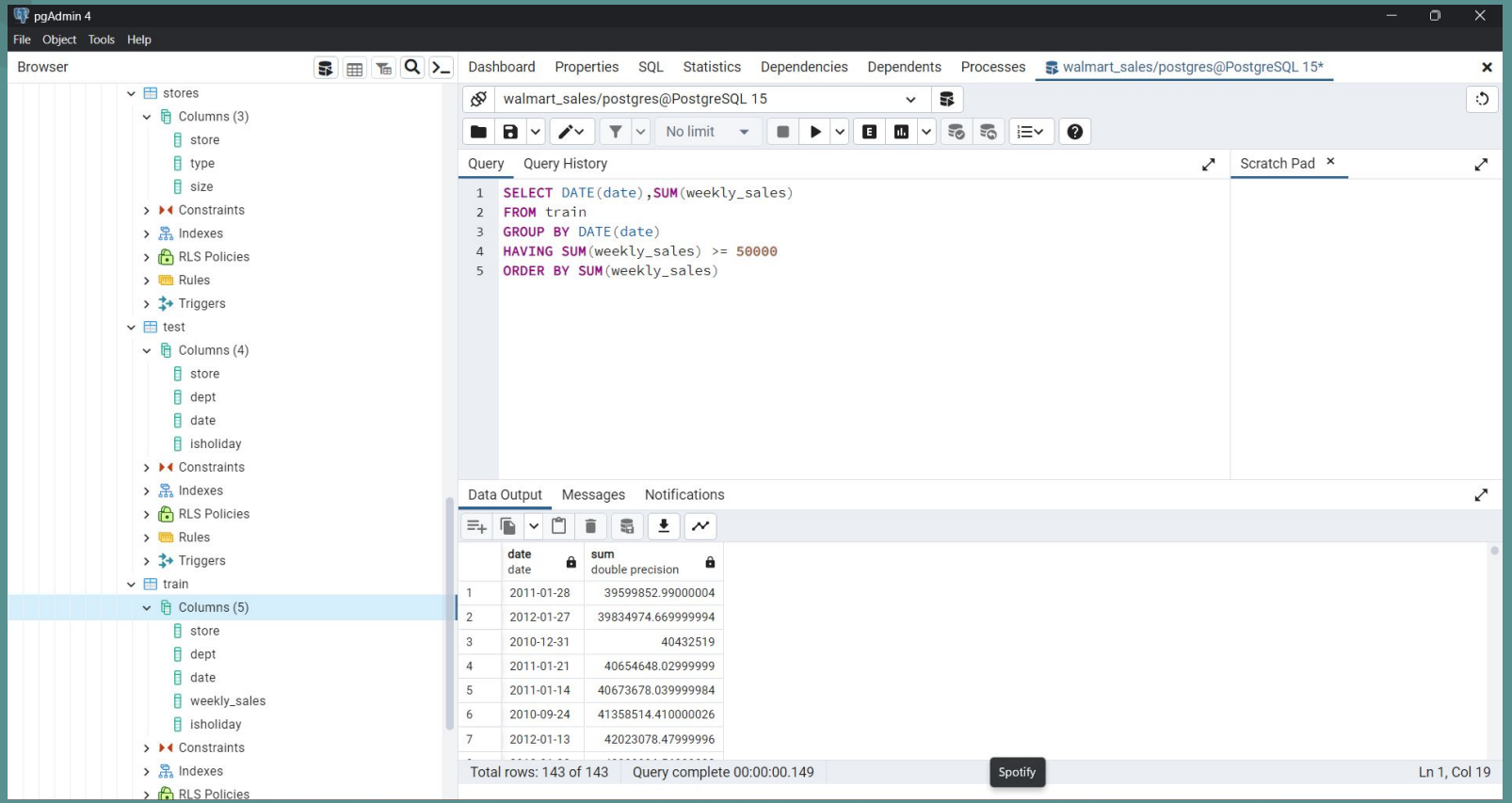
The total number of data entries between "2010-02-05" and "2010-03-10" that were made on a business day for the shop and had a fuel price greater than 2.6.



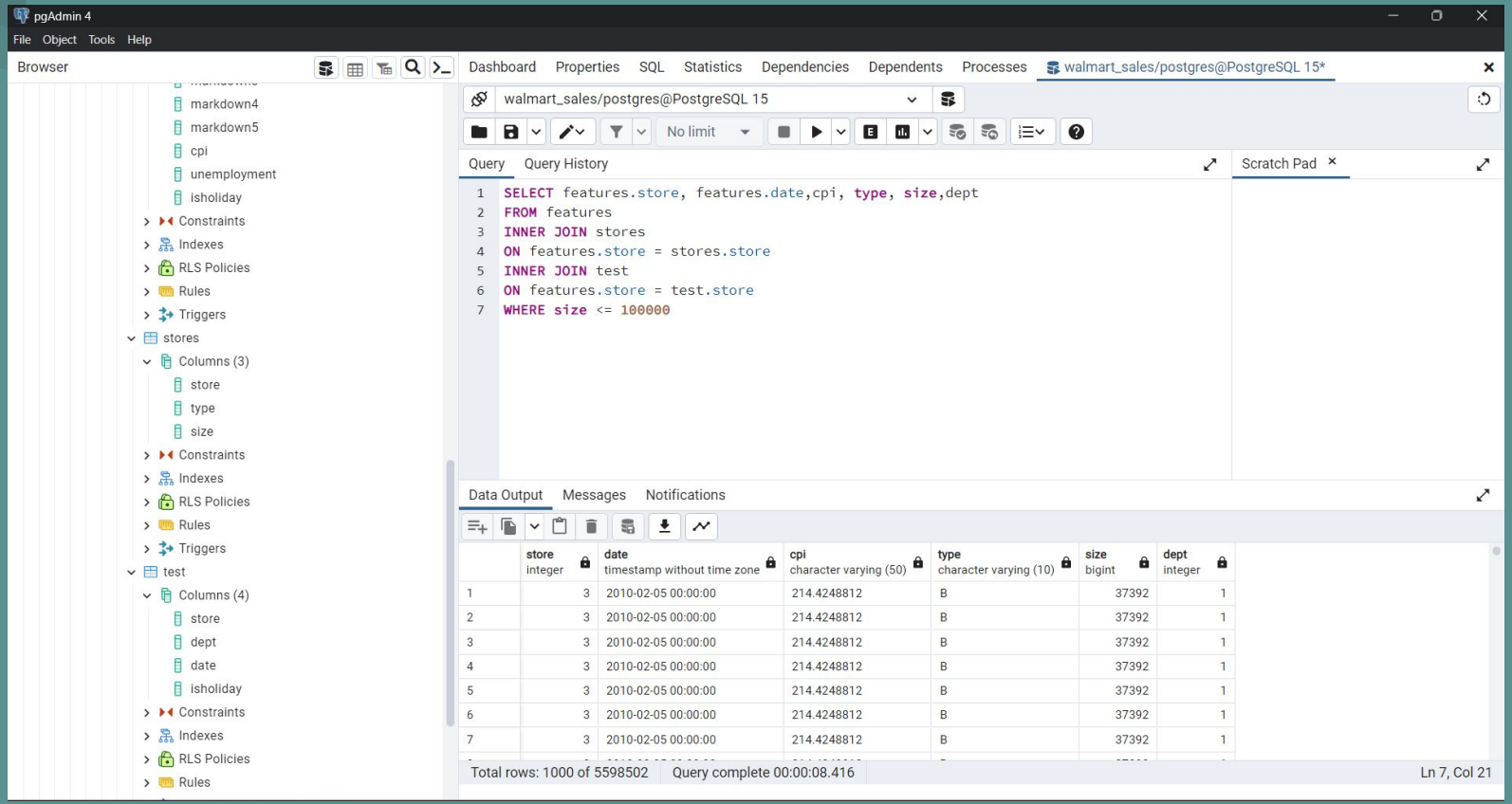
List of the top 5 largest stores according to their size and of ‘C’ type arranging in decreasing order.



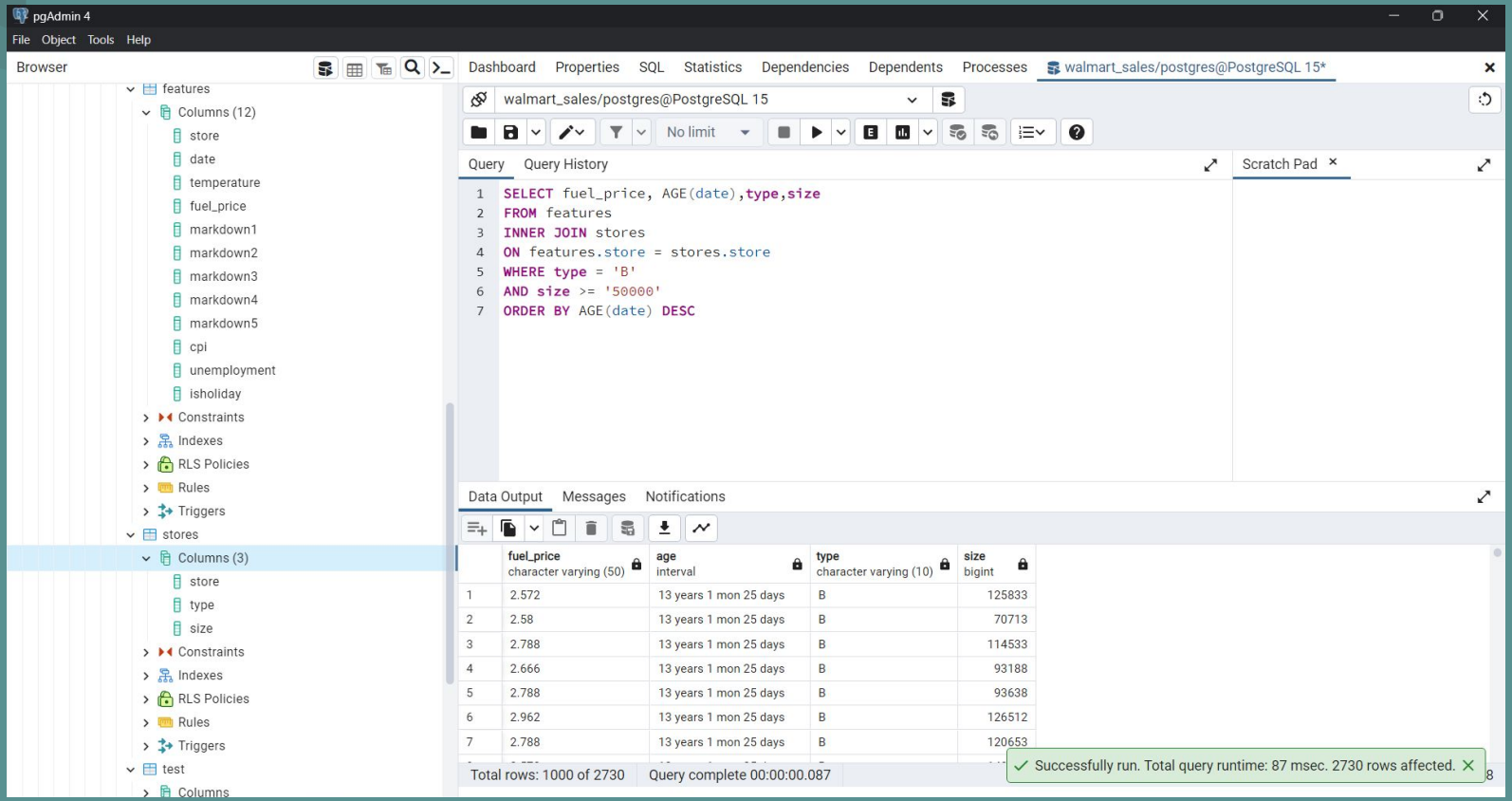
List of total sum of weekly sales of all stores date wise ranking from highest to lowest



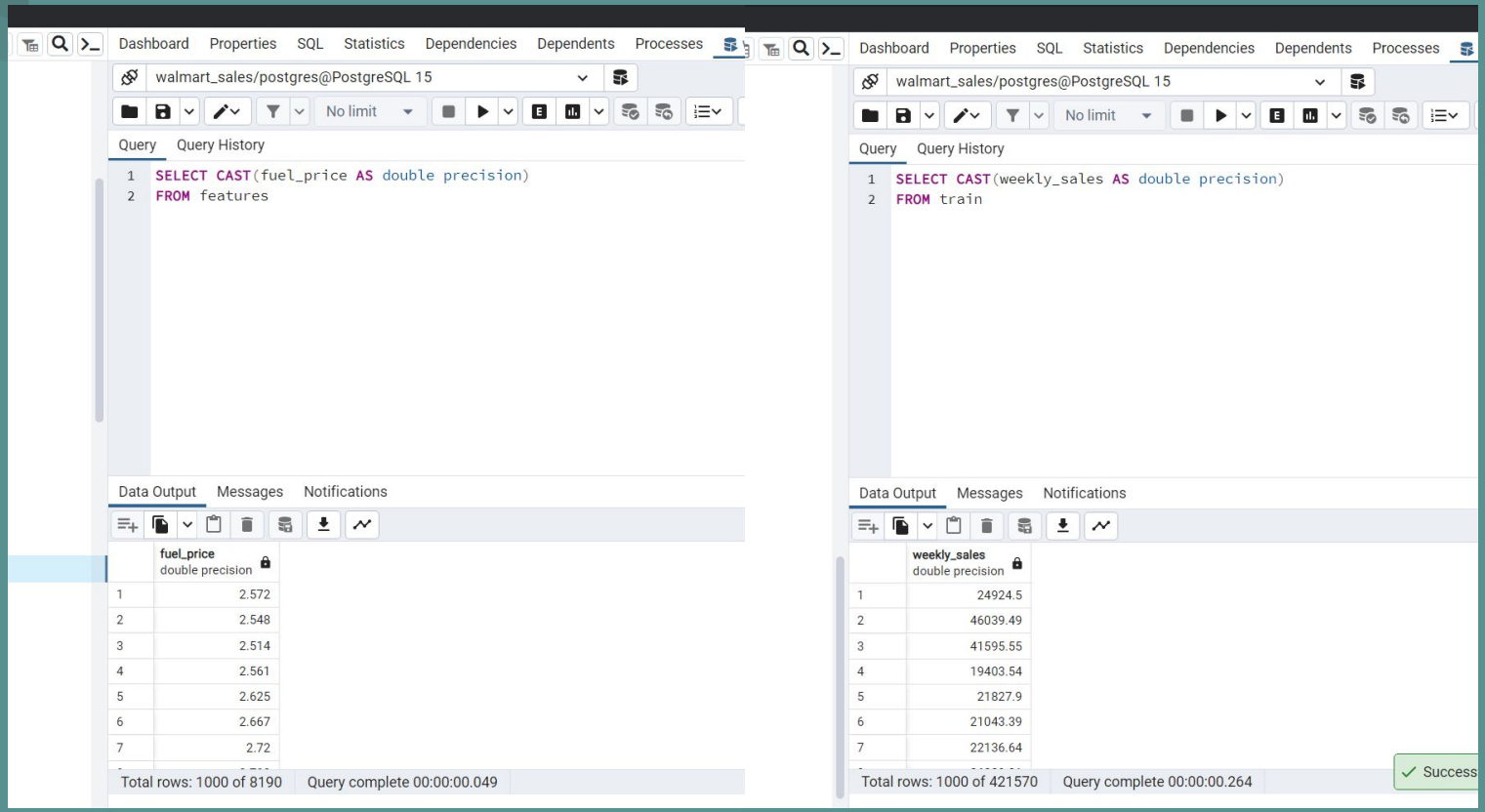
Creating a list consisting of store, date, Consumer Price Index(CPI), type of store, department & size of the store where the size of store is less than 100000.



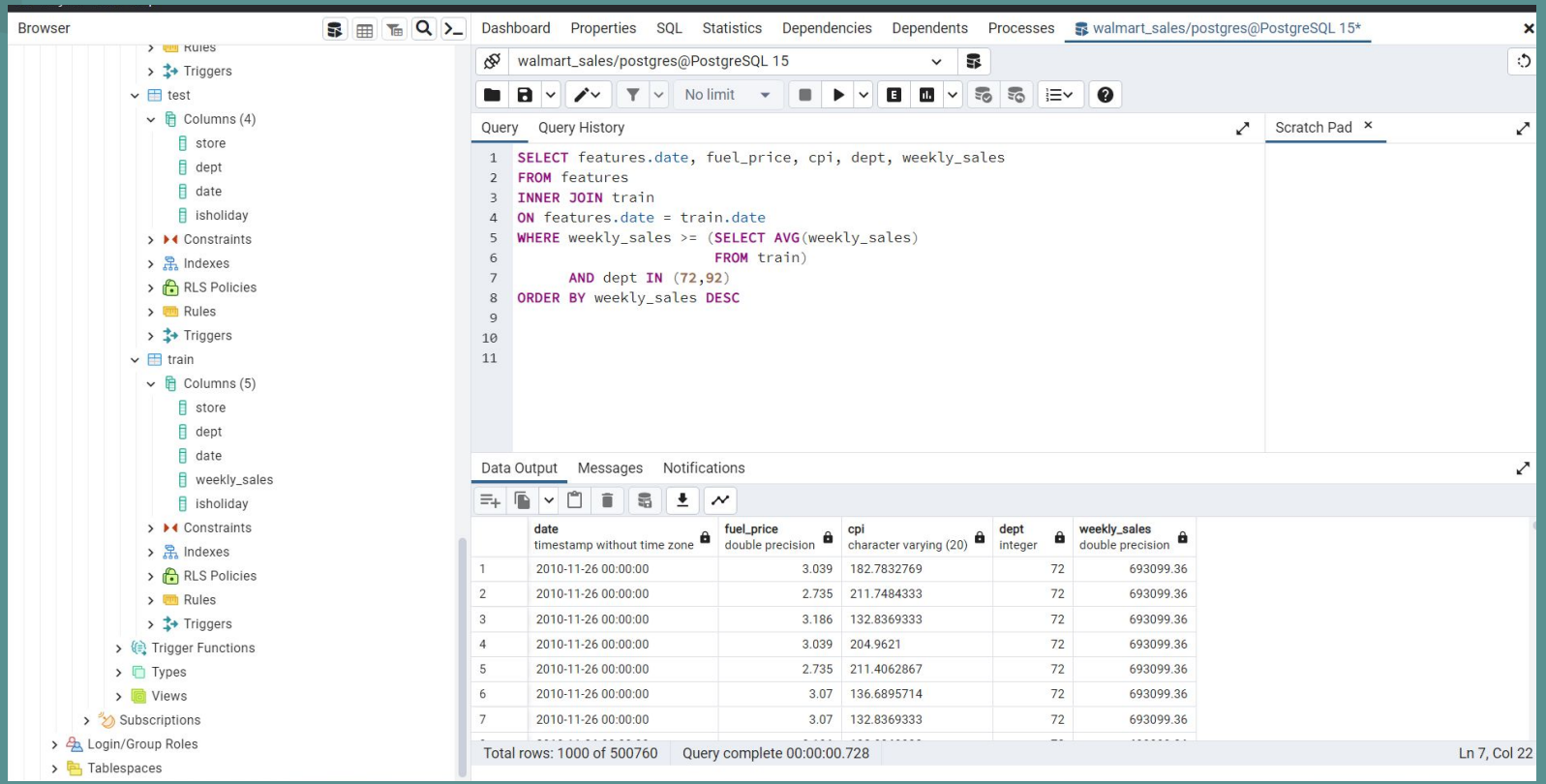
Creating a list consisting of fuel price of each day for type B stores of size greater than 50000 arranged from oldest to newest



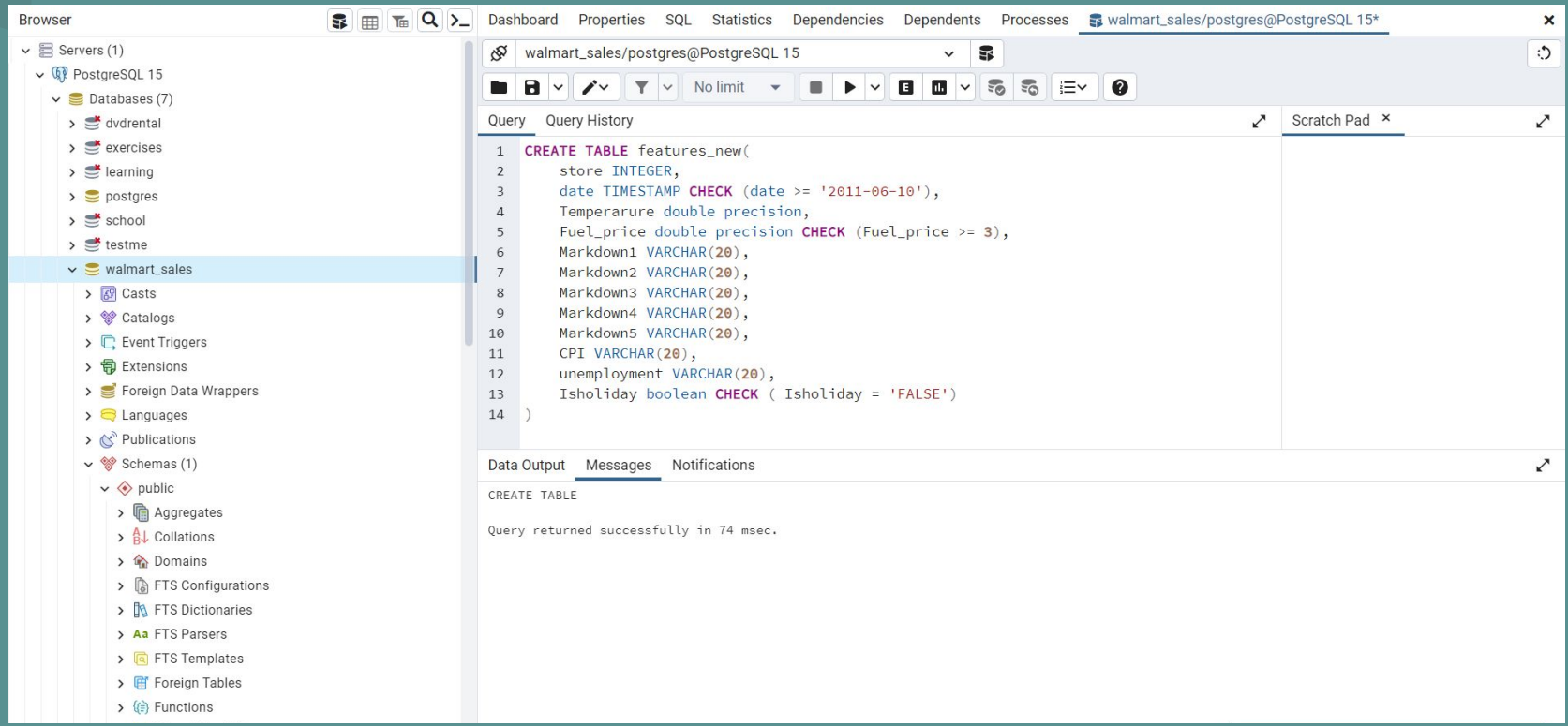
Converting fuel_price and weekly_sales data types into double precision to make them useful for mathematical calculations from VARCHAR datatype .



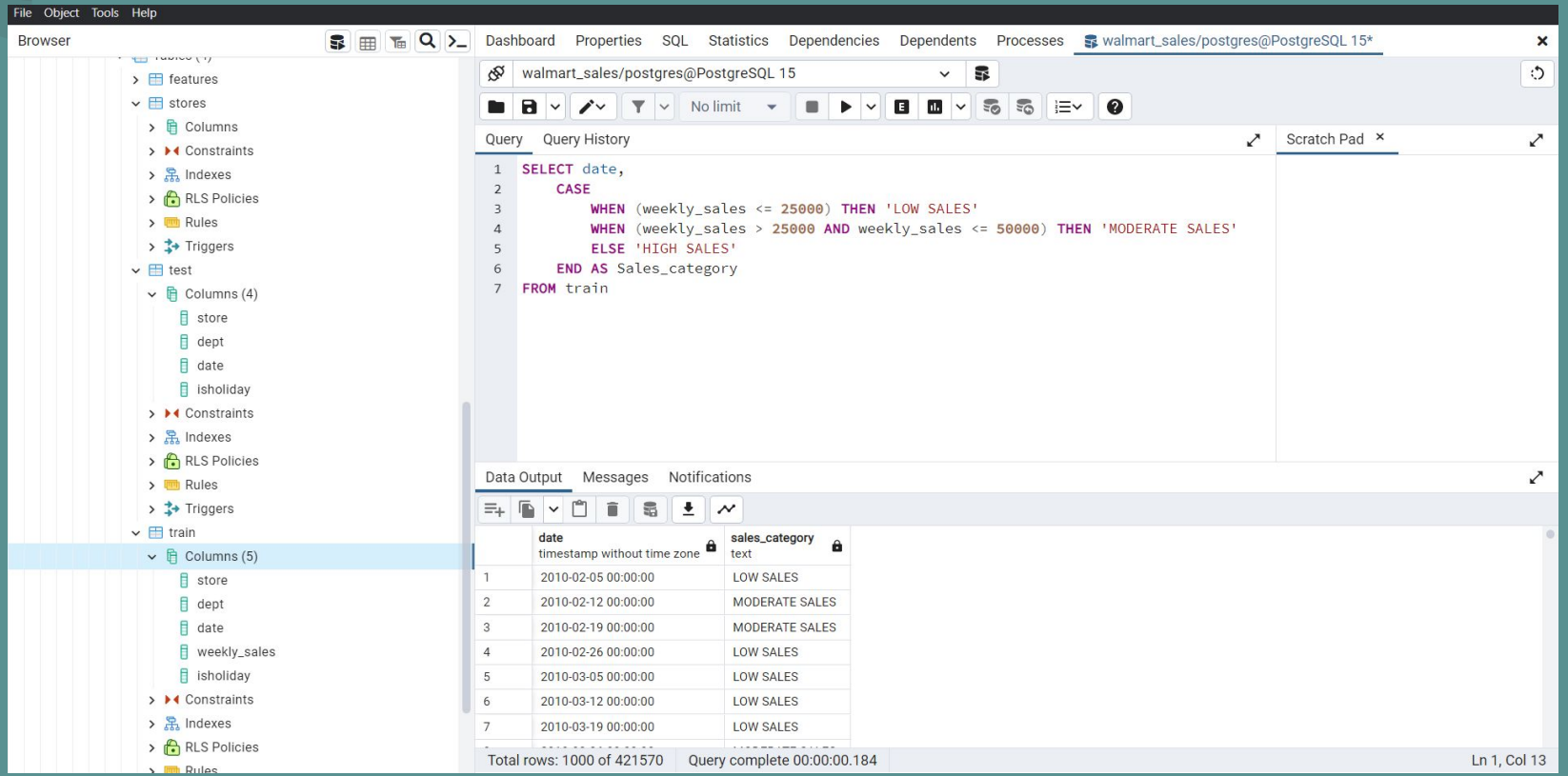
Creating a list which contains the dates when the weekly sales are greater than the overall average weekly sales for 72 & 92 departments arranged in the decreasing order of weekly sales.



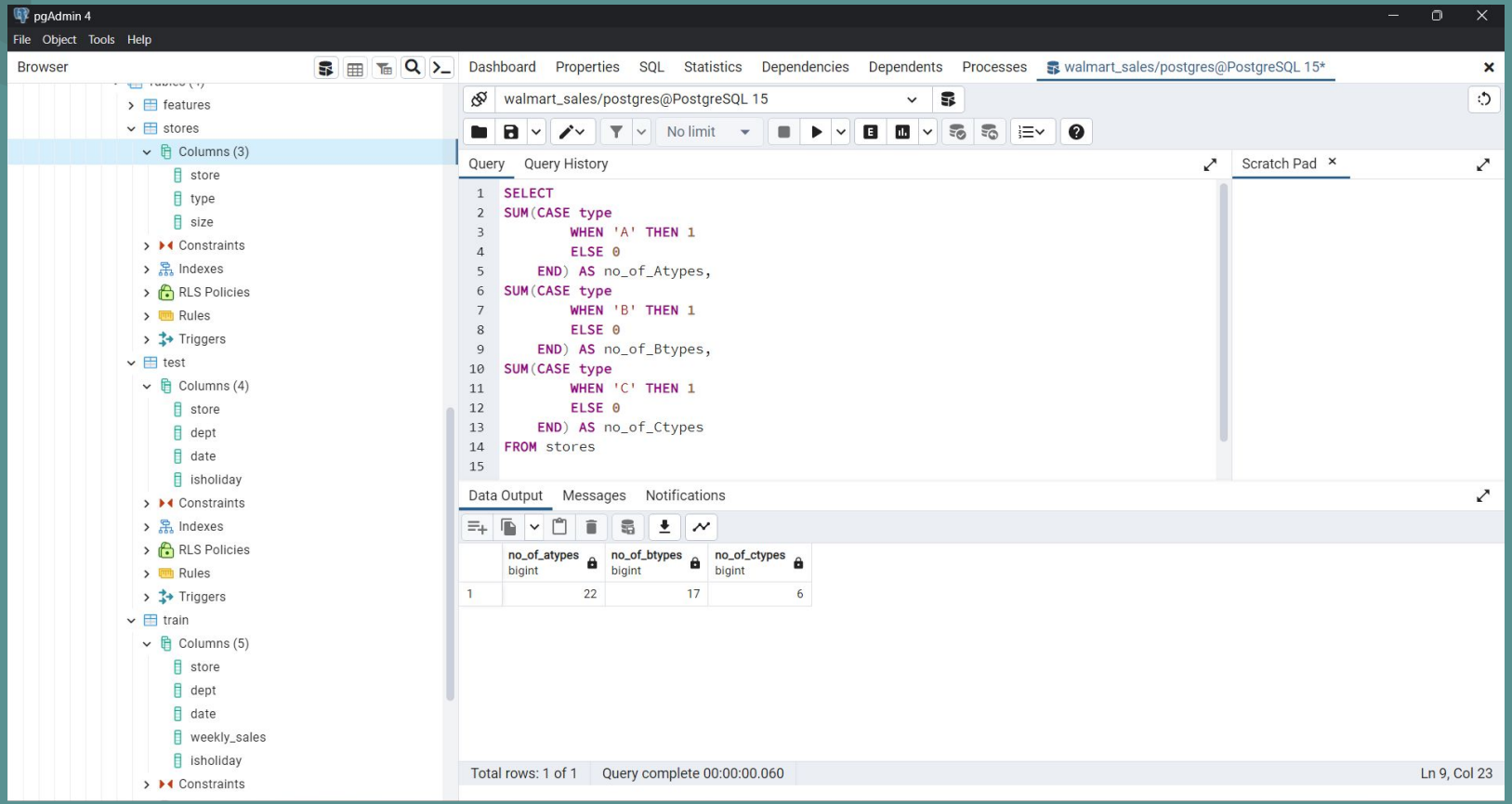
Creating a table ‘features_new’ to import .CSV data into the table which consists of data only after ‘ 2011-06-10’ & when fuel price > 3 & it is a working day for the stores.



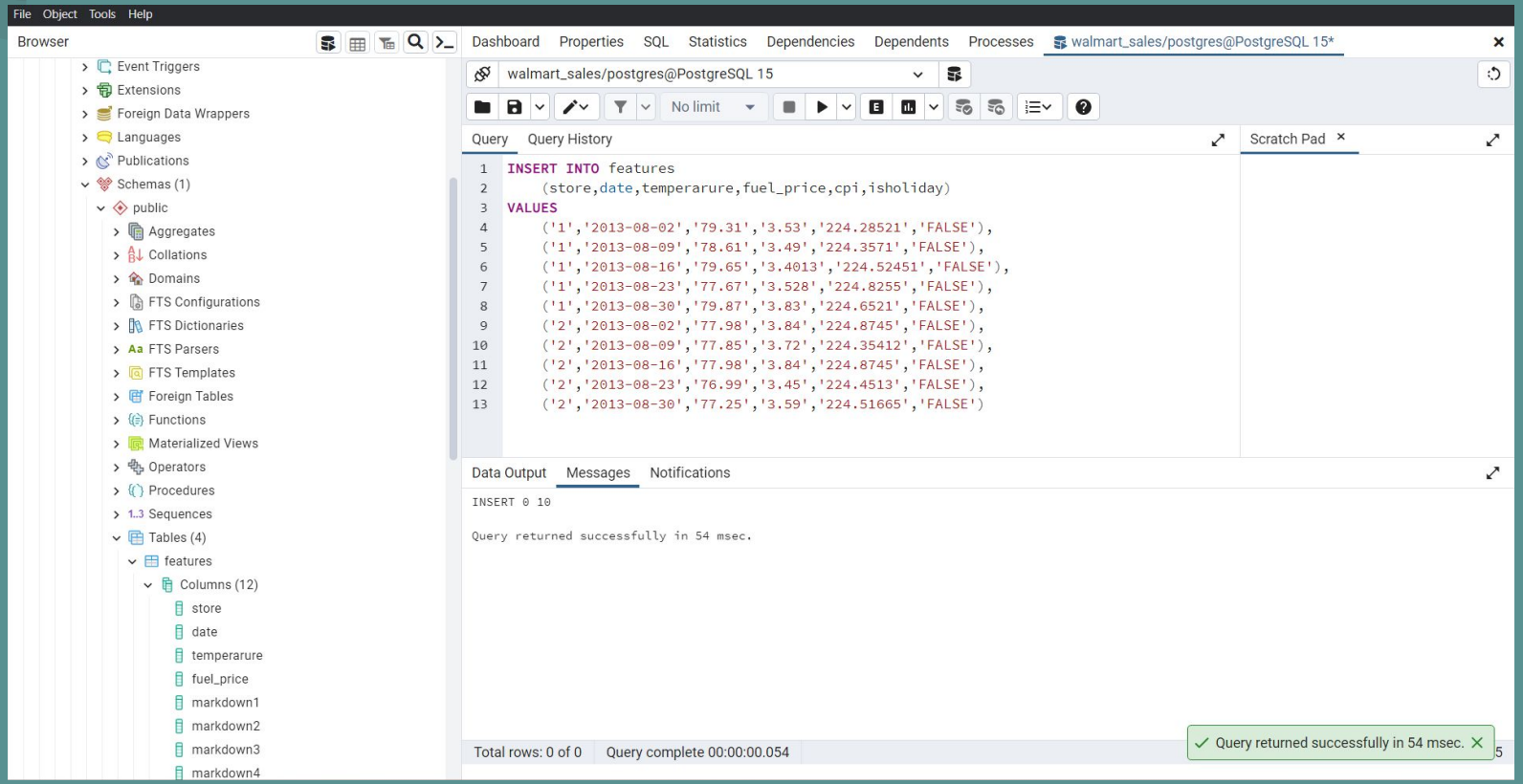
Creating a list which shows sales category as HIGH SALES (<25000) / MODERATE SALES (25000-50000) / LOW SALES(>50000) for each date .



Creating a list which shows total number of each type of stores A, B & C



Inserting the available data of August month of 2013 into features table of store 1 and store2 .



THANK YOU

MOHAMMED SAMEERUDDIN