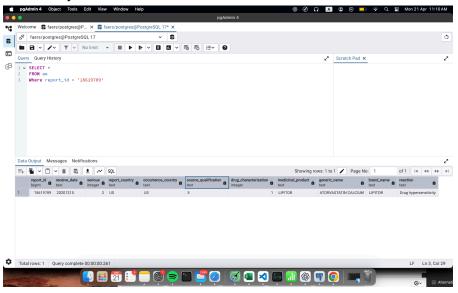
## 1. Test Case: API Query Verification

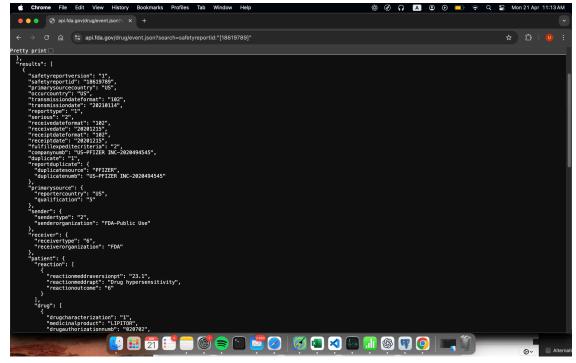
Select a random report ID, search for it using the API query, and verify that the API result matches the downloaded data.

## SQL Query:

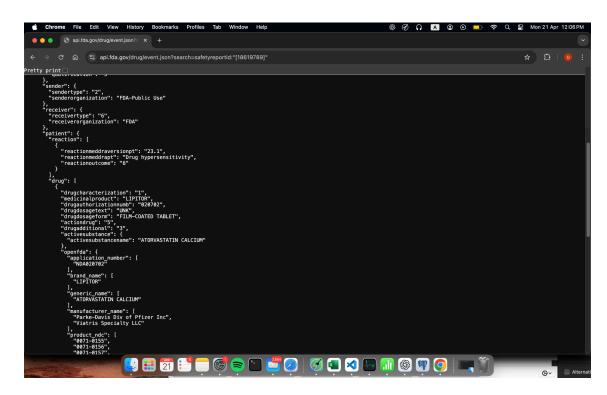


## API query:

a. Verifying Report ID, serious, received date, report country, occurrence country, drug characterization, medicinal product:

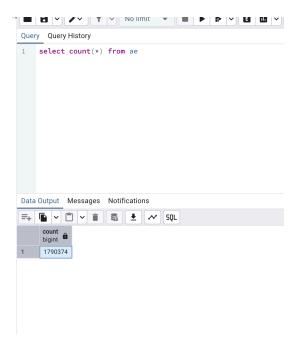


b. Verifying Reaction, generic\_name

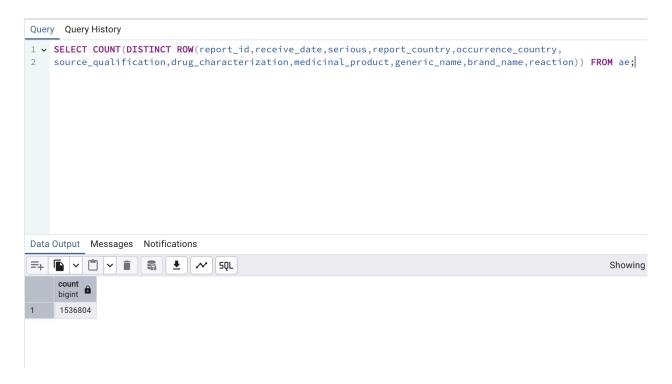


2. Test case: Verifying row-count of the downloaded data

Total no. of rows: 1790374



Unique record count: 1536804



- 3. Test case: Cleaning the downloaded data.
- a. Merging the NULL values: 'source\_qualification' column has both NULL and 'NULL' (as a string) values.

```
Query Query History

1 V UPDATE ae
2 SET source_qualification = NULL
3 WHERE source_qualification = 'NULL';

4 5

Data Output Messages Notifications

UPDATE 97742

Query returned successfully in 4 secs 838 msec.
```

b. Clean and download the data.

Data cleaning summary:

- i. Removed duplicate records
- ii. Filtered the dataset to include only records where receive\_date falls within the year 2020
- iii. Retained only those records where generic\_name contains **Atorvastatin**, **Rosuvastatin**, or **Simvastatin**.
- iv. Excluded records where drug\_characterization is **NULL**, ensuring each drug entry has a defined role in the report.



## 4. Test case: Connecting data to Tableau

Importing the cleaned data (fact table) and connecting it with the dimension tables

