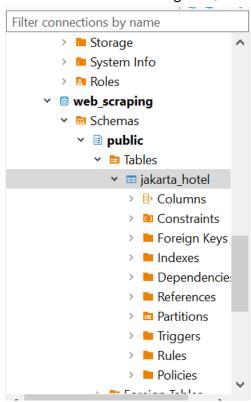
Web Scraping: SQL Query

Deskripsi Assignment

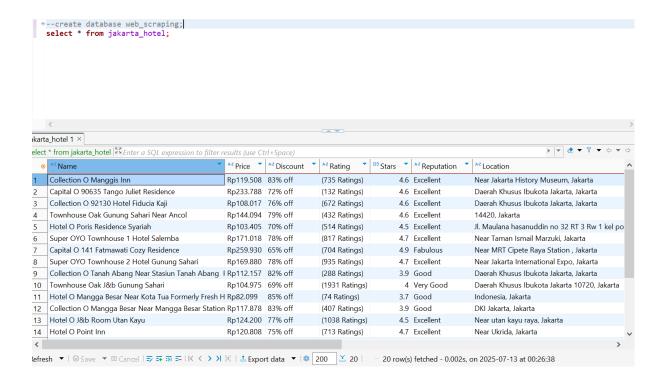
Dalam assignment ini, Anda diminta untuk melakukan web scraping pada sebuah website menggunakan BeautifulSoup untuk mengumpulkan data tentang akomodasi tempat penginapan di Indonesia dari website (**Oyo atau website lainnya, disarankan silahkan bisa di Oyo**). Ikuti saran task yang telah diberikan dibawah.

Instruksi (no 1, 2, 3, dan 6 ada di Jupyter Notebook):

4. Buatlah database di PostgreSQL dan tabel untuk menyimpan data hasil scraping.

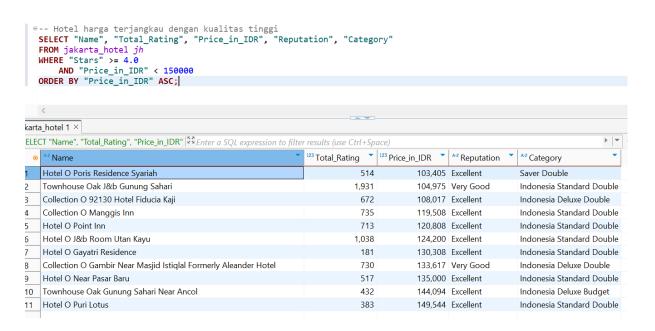


Perlihatkan semua kolom di tabel 'jakarta_hotel':

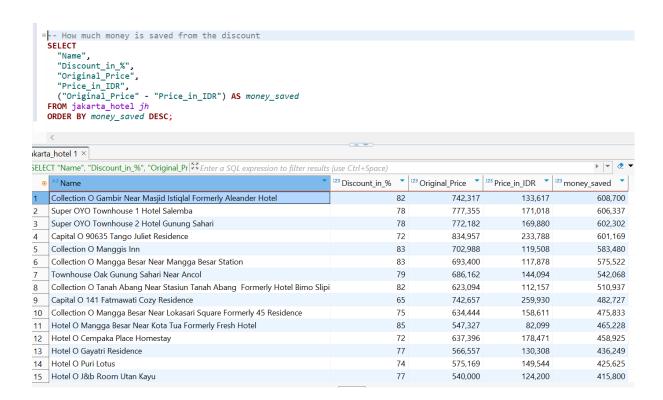


5. Setelah data disimpan, lakukan query sederhana untuk menarik data dari PostgreSQL dan tampilkan beberapa contoh hasil query tersebut dalam bentuk Screen Shot yang bisa anda simpan di drive beserta file code scrapping yang telah anda kerjakan. Jelaskan bagaimana data ini dapat digunakan untuk analisis lebih lanjut atau aplikasi lainnya.

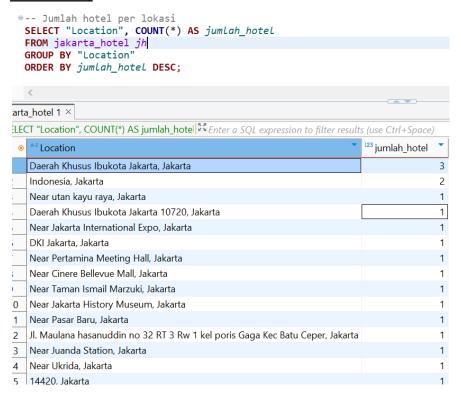
<u>1st Query: Hotel harga terjangkau kualitas tinggi</u>



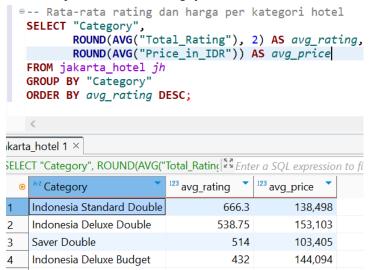
2nd Query: Berapa banyak uang yang dihemat?



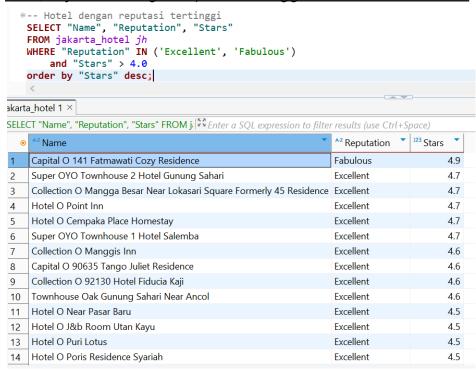
<u>3rd Query: Jumlah hotel tiap lokasi unik (sayangnya input lokasi jelek dan perlu</u> dibereskan)



4th Query: Rata-rata rating (jumlah reviewer) dan kategori hotel



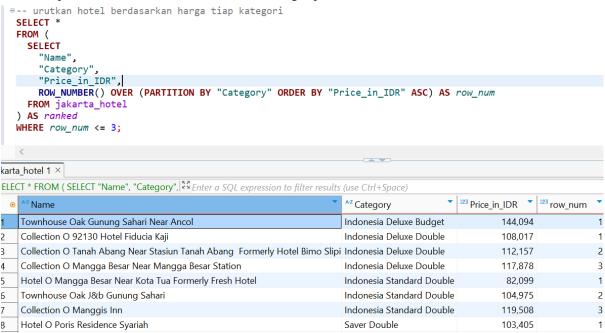
5th Query: Hotel dengan Reputasi Tertinggi: Fabulous and Excellent



6th Query: Most Reviewed Hotel

```
@-- hotel dg rating/review tertinggi, more frequently rated or visited
   SELECT *
   FROM (
      SELECT
        "Name",
"Total_Rating",
        "Stars",
"Price_in_IDR",
        DENSE_RANK() OVER (ORDER BY "Total_Rating" DESC) AS rank_rating
      FROM jakarta_hotel
   ) AS ranked
   WHERE rank_rating <= 5;
karta hotel 1 ×
SELECT * FROM ( SELECT "Name", "Total_Ratir | Table Transfer | SQL expression to filter results (use Ctrl+Space)
                                               123 Total_Rating
                                                             ▼ 123 Stars
                                                                            123 Price_in_IDR
                                                                                             123 rank_rating
      Name
    Townhouse Oak J&b Gunung Sahari
                                                          1,931
                                                                         4
                                                                                     104,975
                                                                                                            1
    Hotel O J&b Room Utan Kayu
                                                          1,038
                                                                                     124,200
                                                                                                            2
                                                                        4.5
    Super OYO Townhouse 2 Hotel Gunung Sahari
                                                            935
                                                                        4.7
                                                                                     169,880
                                                                                                            3
3
    Super OYO Townhouse 1 Hotel Salemba
                                                            817
                                                                        4.7
                                                                                     171,018
                                                                                                            4
   Collection O Manggis Inn
                                                            735
                                                                        4.6
                                                                                     119,508
```

7th Query: Price Order for Each Hotel Category



8th Query: Diskon tertinggi di tiap lokasi unik

```
e-- þek yang diskonnya paling tinggi di tiap lokasi tertentu/unik SELECT *
    FROM (
       SELÈCT
          "Name",
"Location",
"Discount_in_%",
          RANK() OVER (PARTITION BY "Location" ORDER BY "Discount_in_%" DESC) AS rank_diskon
       FROM jakarta_hotel
AS ranked
    WHERE rank_diskon = 1;
iakarta hotel 1 ×
SELECT * FROM ( SELECT "Name", "Location", | Enter a SQL expression to filter results (use Ctrl+Space)
                                                                                                                                                        <sup>A-Z</sup> Location
                                                                                                                                     ▼ 123 Discount_in_%
  A-Z Name
                                                                                                                                                             123 rank_diskon
                                                                       14420, Jakarta
    Townhouse Oak Gunung Sahari Near Ancol
                                                                                                                                                         79
                                                                       Daerah Khusus Ibukota Jakarta 10720, Jakarta
2
     Townhouse Oak J&b Gunung Sahari
                                                                                                                                                         69
    Collection O Tanah Abang Near Stasiun Tanah Abang Formerly Hote Daerah Khusus Ibukota Jakarta, Jakarta
                                                                                                                                                         82
     Collection O Mangga Besar Near Mangga Besar Station
                                                                       DKI Jakarta, Jakarta
                                                                                                                                                         83
 5 Hotel O Mangga Besar Near Kota Tua Formerly Fresh Hotel
                                                                       Indonesia, Jakarta
                                                                                                                                                         85
    Hotel O Poris Residence Syariah
Hotel O Puri Lotus
                                                                       Jl. Maulana hasanuddin no 32 RT 3 Rw 1 kel poris Gaga Kec Batu Cep
                                                                                                                                                         70
 6
                                                                       Near Cinere Bellevue Mall, Jakarta
                                                                                                                                                         74
 7
8 Collection O Manggis Inn
9 Super OYO Townhouse 2 Hotel Gunung Sahari
                                                                       Near Jakarta History Museum, Jakarta
                                                                                                                                                         83
                                                                       Near Jakarta International Expo, Jakarta
                                                                                                                                                         78
 10 Collection O Gambir Near Masjid Istiqlal Formerly Aleander Hotel
                                                                      Near Juanda Station, Jakarta
                                                                                                                                                         82
 11 Collection O Mangga Besar Near Lokasari Square Formerly 45 Reside Near Mangga Dua Mall, Jakarta
                                                                                                                                                         75
12 Capital O 141 Fatmawati Cozy Residence
                                                                       Near MRT Cipete Raya Station , Jakarta
```

9th Query: Price Category

