

1. Membuat database tempat menyimpan file scrapping

The screenshot shows the database structure for 'datahotel'. It includes:

- Schemas
- public
- Tables
 - data_hotel (40K)
- Foreign Tables
- Views
- Materialized Views
- Indexes
- Functions
- Sequences
- Data types
- Aggregate functions
- Event Triggers
- Extensions
- Storage
- System Info
- Roles
- Administrator
- System Info
- Bookmarks
- Dashboards
- Diagrams
- Scripts

Nama Database : **datahotel**

Nama Tabel : **data_hotel**

2. Melakukan query sederhana

The screenshot shows a SQL query and its execution results:

```
select *  
from data_hotel dh ;
```

The results grid displays the following data:

Grid	title	alamat	harga_sewa	fasilitas	rating
1	The Trans Luxury Hotel	Buahbatu	8,063,391	Kids club, Massage, Fitness center, E	5
2	Hotel Indigo BANDUNG DAGO PAKAI	Cihampelas	3,174,566	Unique Children, ClubShow, cooking	5
3	The Papandayan Hotel	Dago Atas	7,707,708	Fitness center, Bar	3
4	Kytos Hotel	Dago Atas	809,173	DartsRecreation room, WineryPool, s	5
5	Hotel Indigo BANDUNG DAGO PAKAI	Merdeka	3,174,566	Children play area, Airport transfer	4
6	Harris Hotel & Conventions Festival C	Setiabudi	1,375,921	Rooftop, , terrace,	4
7	Janévalla Bandung	Pasir Koja	3,894,349	Aerobics, Children play area, Kids clu	5
8	Mason Pine Hotel Bandung	Riau Street	4,641,000	Children play area, Fitness center, Bil	5
9	De Paviljoen Bandung	Merdeka	6,599,730	Kids club, Massage, Fitness center, E	4
10	Aryaduta Bandung	Lengkong	6,347,256	Unique Children, ClubShow, cooking	5
11	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5
12	Hotel Indigo BANDUNG DAGO PAKAI	Buahbatu	3,174,566	DartsRecreation room, WineryPool, s	5
13	The Papandayan Hotel	Cihampelas	7,707,708	Fitness center, Bar	3
14	Kytos Hotel	Dago Atas	809,173	Children play area, Airport transfer	4
15	Hotel Indigo BANDUNG DAGO PAKAI	Merdeka	3,174,566	Rooftop, , terrace,	5
16	Harris Hotel & Conventions Festival C	Setiabudi	1,375,921	Aerobics, Children play area, Kids clu	4
17	Janévalla Bandung	Pasir Koja	3,894,349	Children play area, Fitness center, Bil	5
18	Mason Pine Hotel Bandung	Riau Street	4,641,000	Kids club, Massage, Fitness center, E	5
19	De Paviljoen Bandung	Merdeka	6,599,730	Unique Children, ClubShow, cooking	4
20	Aryaduta Bandung	Lengkong	6,347,256	Fitness center, Bar	5
21	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5
22	Hotel Indigo BANDUNG DAGO PAKAI	Ciater	3,174,566	DartsRecreation room, WineryPool, s	5

④ -- Mendapatkan data hotel yang memiliki harga sewa diatas Rp.200,000

```
SELECT title, alamat, harga_sewa
FROM data_hotel dh
WHERE harga_sewa > 200000;
```

data_hotel 1 X

• SELECT title, alamat, harga_sewa FR | Enter a SQL expression to filter results (use Ctrl+Space)

	A-Z title	A-Z alamat	123 harga_sewa
1	The Trans Luxury Hotel	Buahbatu	8,063,391
2	Hotel Indigo BANDUNG DAGO PAKAR, an IHG Hotel	Cihampelas	3,174,566
3	The Papandayan Hotel	Dago Atas	7,707,708
4	Kytos Hotel	Dago Atas	809,173
5	Hotel Indigo BANDUNG DAGO PAKAR, an IHG Hotel	Merdeka	3,174,566
6	Harris Hotel & Conventions Festival Citilink Bandung	Setiabudi	1,375,921
7	Janévalla Bandung	Pasir Koja	3,894,349
8	Mason Pine Hotel Bandung	Riau Street	4,641,000
9	De Paviljoen Bandung	Merdeka	6,599,730
10	Aryaduta Bandung	Lengkong	6,347,256
11	The Trans Luxury Hotel	Padalarang	8,063,391
12	Hotel Indigo BANDUNG DAGO PAKAR, an IHG Hotel	Buahbatu	3,174,566
13	The Papandayan Hotel	Cihampelas	7,707,708

④ --Mendapatkan data hotel dengan harga tertinggi

```
SELECT *
FROM data_hotel dh
WHERE harga_sewa = (SELECT MAX(harga_sewa) FROM data_hotel dh2);
```

data_hotel 1 X

• SELECT * FROM data_hotel dh WHERE | Enter a SQL expression to filter results (use Ctrl+Space)

	A-Z title	A-Z alamat	123 harga_sewa	A-Z fasilitas	123 rating	Panels
1	The Trans Luxury Hotel	Buahbatu	8,063,391	Kids club, Massage, Fitness center, Business fa	5	
2	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5	
3	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5	
4	The Trans Luxury Hotel	Setiabudi	8,063,391	DartsRecreation room, WineryPool, side bar, Ex	5	
5	The Trans Luxury Hotel	Dago Atas	8,063,391	Children play area, Airport transfer	5	
6	The Trans Luxury Hotel	Merdeka	8,063,391	Rooftop, , terrace,	5	
7	The Trans Luxury Hotel	Dago Atas	8,063,391	Aerobics, Children play area, Kids club, Car ren	5	
8	The Trans Luxury Hotel	Dago Atas	8,063,391	Children play area, Fitness center, BilliardWhee	5	
9	The Trans Luxury Hotel	Cihampelas	8,063,391	Tidak ada fasilitas yang terdaftar	5	

```

-- Mendapatkan alamat Lengkong dengan harga sewa diatas Rp.1000,000
select *
from data_hotel dh
where alamat like '%Lengkong%'
    and harga_sewa > 1000000;

```

data_hotel 1

select * from data_hotel dh where alamat Enter a SQL expression to filter results (use Ctrl+Space)

Grid	A-Z title	A-Z alamat	123 harga_sewa	A-Z fasilitas	123 rating	Panels
1	Aryaduta Bandung	Lengkong	6,347,256	Unique Children, ClubShow, cooking, restaura	5	
2	Aryaduta Bandung	Lengkong	6,347,256	Fitness center, Bar	5	
3	Harris Hotel & Conventions Festival Citilink Ban	Lengkong	1,375,921	Unique Children, ClubShow, cooking, restaura	4	
4	Harris Hotel & Conventions Festival Citilink Ban	Lengkong	1,375,921	Fitness center, Bar	4	
5	Janévalla Bandung	Lengkong	3,894,349	Fitness center, Bar	5	
6	Mason Pine Hotel Bandung	Lengkong	4,641,000	Rooftop, , terrace,	5	
7	De Paviljoen Bandung	Lengkong	6,599,730	Tidak ada fasilitas yang terdaftar	4	

```

-- Mendapatkan data hotel yang memiliki rating 5
select *
from data_hotel dh
where rating = 5;

```

data_hotel 1

select * from data_hotel dh where rating Enter a SQL expression to filter results (use Ctrl+Space)

Grid	A-Z title	A-Z alamat	123 harga_sewa	A-Z fasilitas	123 rating	Panels
2	Hotel Indigo BANDUNG DAGO PAKAR, an IHG	Cihampelas	3,174,566	Unique Children, ClubShow, cooking, restaura	5	
3	Kytos Hotel	Dago Atas	809,173	DartsRecreation room, WineryPool, side bar, Ex	5	
4	Janévalla Bandung	Pasir Koja	3,894,349	Aerobics, Children play area, Kids club, Car ren	5	
5	Mason Pine Hotel Bandung	Riau Street	4,641,000	Children play area, Fitness center, BilliardWhee	5	
6	Aryaduta Bandung	Lengkong	6,347,256	Unique Children, ClubShow, cooking, restaura	5	
7	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5	
8	Hotel Indigo BANDUNG DAGO PAKAR, an IHG	Buahbatu	3,174,566	DartsRecreation room, WineryPool, side bar, Ex	5	
9	Hotel Indigo BANDUNG DAGO PAKAR, an IHG	Merdeka	3,174,566	Rooftop, , terrace,	5	
10	Janévalla Bandung	Pasir Koja	3,894,349	Children play area, Fitness center, BilliardWhee	5	
11	Mason Pine Hotel Bandung	Riau Street	4,641,000	Kids club, Massage, Fitness center, Business fa	5	
12	Aryaduta Bandung	Lengkong	6,347,256	Fitness center, Bar	5	
13	The Trans Luxury Hotel	Padalarang	8,063,391	Fitness center, Bar	5	
14	Hotel Indigo BANDUNG DAGO PAKAR, an IHG	Ciate	3,174,566	DartsRecreation room, WineryPool, side bar, Ex	5	
15	Kytos Hotel	Dago Atas	809,173	Aerobics, Children play area, Kids club, Car ren	5	
16	Janévalla Bandung	Cihampelas	3,894,349	Kids club, Massage, Fitness center, Business fa	5	

```

-- Menghitung rata-rata harga sewa untuk setiap lokasi
SELECT alamat, AVG(harga_sewa) AS rata_rata_harga
FROM data_hotel
GROUP BY alamat;

```

data_hotel 1

SELECT alamat, AVG(harga_sewa) AS rata_rata_harga Enter a SQL expression to filter results (use Ctrl+Space)

Grid	A-Z alamat	123 rata_rata_harga
1	Lengkong	3,923,825.75
2	Pasir Koja	3,671,618.375
3	Dago Atas	5,563,356.933333334
4	Ciate	3,174,566
5	Lembang	7,707,708
6	Cihampelas	5,878,466.25
7	Merdeka	4,181,235.5
8	Buahbatu	4,842,151.625
9	Padalarang	5,359,923.375
10	Setiabudi	3,606,976.5
11	Riau Street	3,677,285.375

Data ini dapat digunakan untuk analisis lebih lanjut seperti :

1. Analisis harga sewa : Memahami pola harga sewa hotel berdasarkan lokasi, fasilitas, dan rating
 - Dengan menghitung rata-rata harga sewa untuk setiap Lokasi
 - Menganalisis hubungan antara harga sewa dan rating hotel
 - Membandingkan harga sewa hotel dengan fasilitas yang dimiliki
2. Peringkat Hotel Berdasarkan Rating : Menentukan hotel terbaik di suatu wilayah
 - menganalisis hubungan antara harga sewa dan rating hotel
 - Menghitung rata-rata harga sewa untuk setiap kota atau wilayah.
3. Rekomendasi Hotel : Mengembangkan sistem rekomendasi berbasis preferensi pengguna, misalnya menampilkan hotel berdasarkan Lokasi atau budget.