Dibimbing Data Science 33B

Case Study Basic SQL Queries – Day 18

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1. Membuat Database dan Tabel

```
create table student (
    id INT primary KEY,
    nama varchar,
    institute varchar,
    berat_badan float,
    tinggi_badan float
);

insert into student (id, nama, institute, berat_badan, tinggi_badan)
values
    (110, 'Astuti', 'ITB', 56, 163),
    (111, 'Bastomi', 'UGM', 70, 174),
    (112, 'Charlie', 'NUS', 63, 166),
    (113, 'Antony', 'Betis', 69, 177),
    (114, 'Yamal', 'Barca', 70, 180);
```

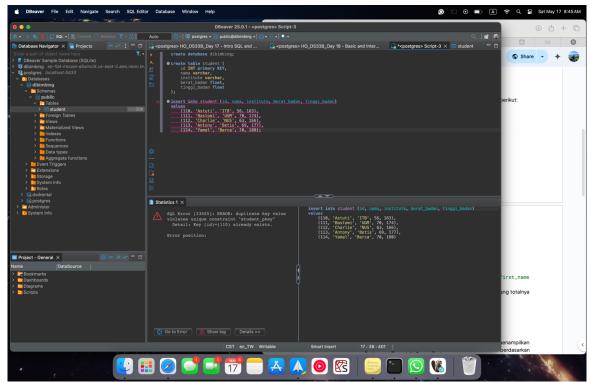


Figure 1. Membuat Database students Dengan 5 Data

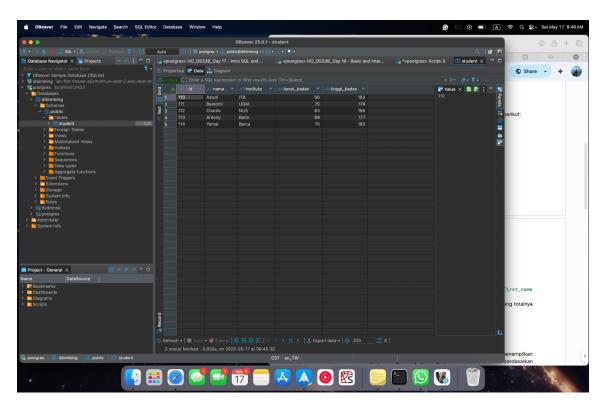


Figure 2. Hasil Tabel Students dengan 5 Data

- 2. Query Data pada Skema dvdrental
 - a. **Tampilkan first_name dan last_name** dari aktor yang memiliki first_name "Jennifer", "Nick", atau "Ed".

```
select *
from actor
where first_name in ('Jennifer', 'Nick', 'Ed');
```

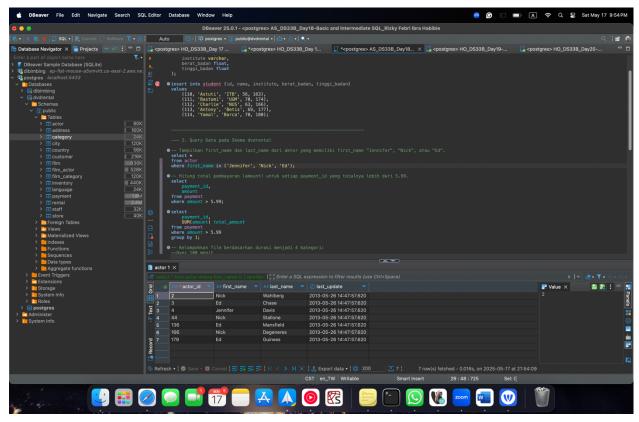


Figure 3. Hasil first_name dan last_name

b. Hitung **total pembayaran** (amount) untuk setiap payment_id yang totalnya lebih dari **5.99**.

```
select
    payment_id,
    amount
from payment
where amount > 5.99;
select
    payment_id,
    SUM(amount) total_amount
from payment
where amount > 5.99
```

group by 1;

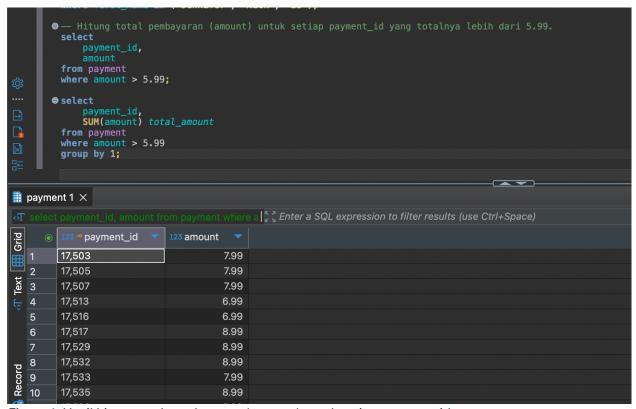


Figure 4. Hasil hitung total pembayaran (amount) untuk setiap payment_id

- c. Kelompokkan film berdasarkan durasi menjadi 4 kategori:
 - i. Over 100 menit
 - ii. 87-100 menit
 - iii. 72-86 menit
 - iv. Under 72 menit

```
select
    film_id,
    title,
    case
        when length > 100 then 'Over 100 menit'
        when length >= 87 then '87-100 menit'
        when length >= 72 then '72-86 menit'
        when length < 72 then 'Under 72 menit'
    end as length_category
from film;</pre>
```

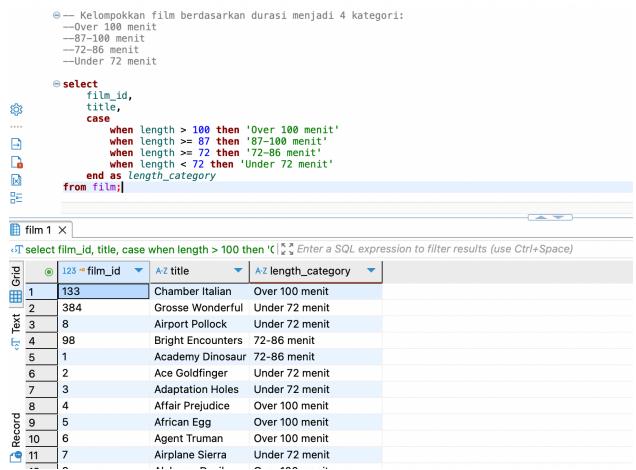


Figure 5. Pengelompokkan film berdasarkan durasi

d. Gabungkan data dari tabel rental dan payment untuk menampilkan rental_id, rental_date, payment_id, dan amount, urutkan berdasarkan amount secara ascending.

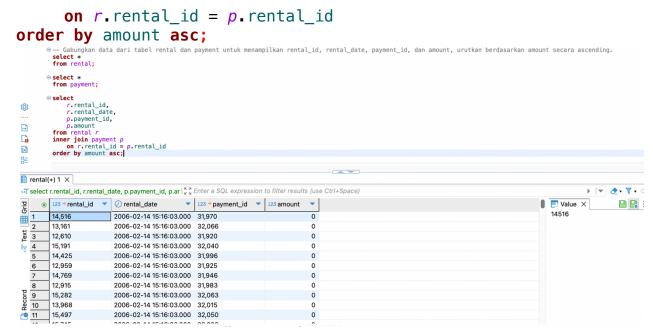


Figure 6. Penggabungan Data dari Tabel rental dan payment

e. Gunakan **UNION** untuk menggabungkan alamat (address) yang memiliki **city_id = 42** dengan **city_id = 300**.

```
select * from city;
select * from address;

select
          *
from address
where city_id = 300
union
select
          *
from address
where city_id = 42;
```

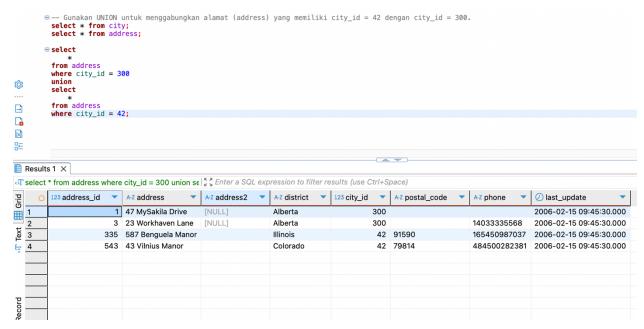


Figure 7. Penggunaan UNION untuk Menggabungkan address

SQL Link:

https://github.com/rfih/Dibimbing---

DSDA/blob/3e4921d6bb7288e5be8de1cdbf8a58dd11083f59/Assignment%20Day%2018% 20-%20Basic%20SQL%20Queries/AS_DS33B_Day18-

Basic%20and%20Intermediate%20SQL_Rizky%20Febri%20Ibra%20Habibie.sql