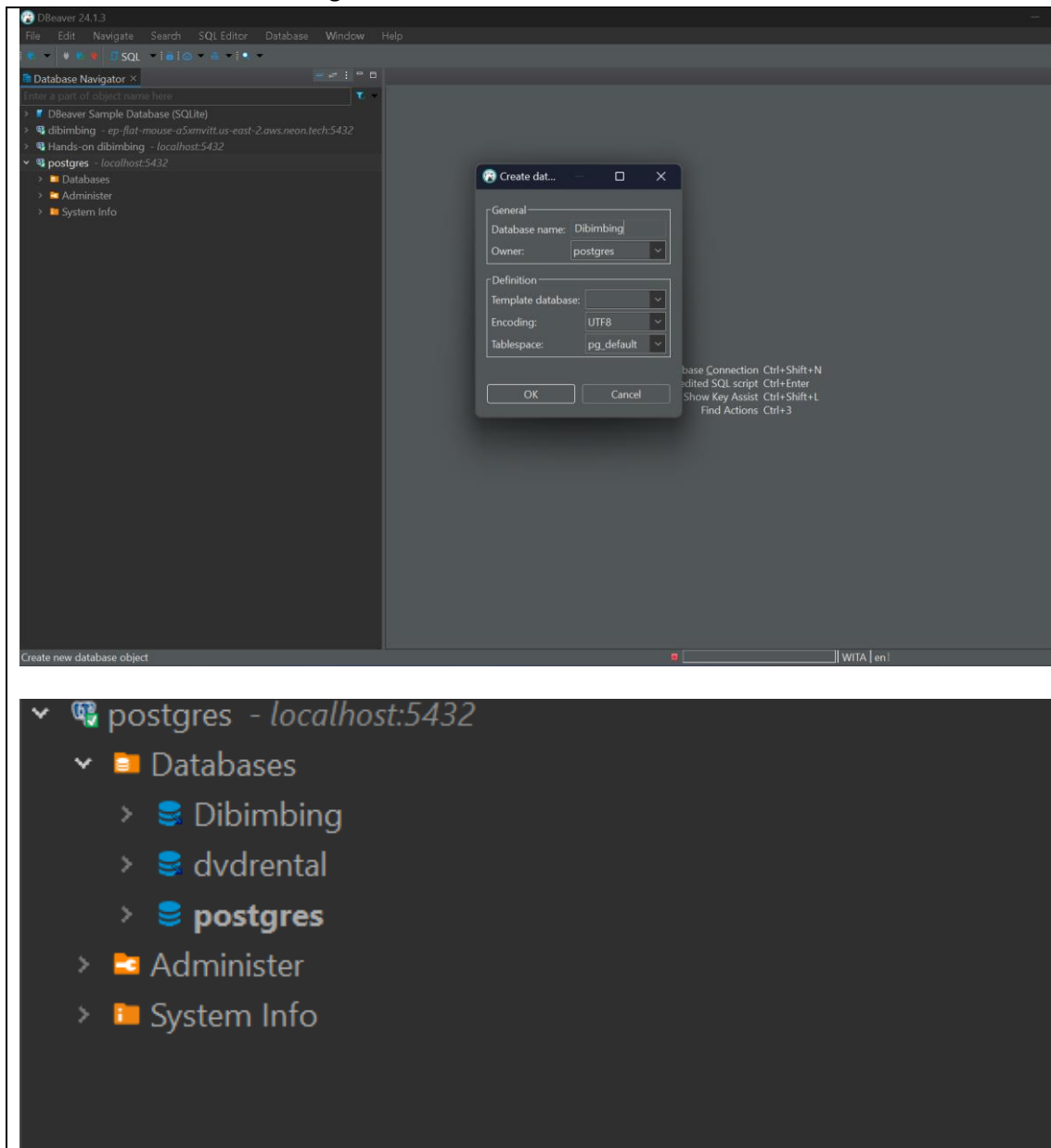# Asignment Day 12

1. Membuat database
   - Membuat Database dibimbing

   - Membuat tabel student

```sql
create table students(
    id int primary key,
    nama varchar,
    institute varchar,
    berat_badan float,
    tinggi_badan float
);
```

- Mengisi tabel student

```
insert into
        students
values
        (1,'Muhammad Ali','Universitas Mataram',54,165),
        (2,'Nabila Ulfa', 'Universitas Indonesia',50.2,159),
        (3,'Antonius Aja', 'Universitas Brawijaya',60.3,170),
        (4,'Dedi Cahyadi', 'Universitas Gadjah Mada',70,174),
        (5,'Abdi Maulana', 'Institut Pertanian Bogor',55,164);
```

- Menampilkan isi tabel students

```
select * from students
```

id	nama	institute	berat_badan	tinggi_badan
1	Muhammad Ali	Universitas Mataram	54	
2	Nabila Ulfa	Universitas Indonesia	50.2	
3	Antonius Aja	Universitas Brawijaya	60.3	
4	Dedi Cahyadi	Universitas Gadjah Mada	70	
5	Abdi Maulana	Institut Pertanian Bogor	55	

2. Menunjukkan first_name dan last_name actor yang memiliki first_name Jennifer, Nick, dan Ed

```sql
select
    first_name, last_name
from
    actor a
where
    first_name = 'Jennifer' or first_name = 'Nick' or first_name = 'Ed'
```

	first_name	last_name
1	Nick	Wahlberg
2	Ed	Chase
3	Jennifer	Davis
4	Nick	Stallone
5	Ed	Mansfield
6	Nick	Degeneres
7	Ed	Guiness

Value: Nick

3. Menghitung Total Amount untuk setiap payment_id yang Total Amount-nya lebih dari 5.99 (hint: menggunakan HAVING)

```sql
select
    payment_id , sum(amount) as total_amount
from
    payment p
group by
    payment_id
having
    sum(amount) > 5.99;
```

	payment_id	total_amount
1	18,803	7.99
2	31,789	6.99
3	25,886	10.99
4	28,031	9.99
5	23,154	7.99
6	18,474	7.99
7	26,032	9.99
8	25,574	7.99
9	20,860	6.99
10	31,761	7.99
11	30,399	6.99
12	31,204	6.99
13	23,241	8.99
14	19,597	7.99
15	25,032	8.99

Value: 18803

Refresh | Save | Cancel | Export data | 200 | 200+

200 row(s) fetched - 0.036s (0.003s fetch), on 2024-09-20 at 14:09:14

4. Menunjukkan film.id, film.title, film.description and film_length. Kelompokkan film.length ke dalam 4 categories(over 100, 87-100, 72-86 and under 72). Penamaan kelompok dibebaskan

```sql
select
    film_id ,title , description ,length,
case
    when length > 100 then 'Very Long'
    when length between 87 and 100 then 'Long'
    when length between 72 and 86 then 'Medium'
    when length < 72 then 'Short'
end as
    duration_category
from
    film;
```

film_id	title	description	length	duration_category
133	Chamber Italian	A Fateful Reflection of a Moos	117	Very Long
384	Grosse Wonderful	A Epic Drama of a Cat And a E	49	Short
8	Airport Pollock	A Epic Tale of a Moose And a (	54	Short
98	Bright Encounters	A Fateful Yarn of a Lumberjack	73	Medium
1	Academy Dinosaur	A Epic Drama of a Feminist An	86	Medium
2	Ace Goldfinger	A Astounding Epistle of a Data	48	Short
3	Adaptation Holes	A Astounding Reflection of a L	50	Short
4	Affair Prejudice	A Fanciful Documentary of a Fi	117	Very Long
5	African Egg	A Fast-Paced Documentary of	130	Very Long
6	Agent Truman	A Intrepid Panorama of a Rob	169	Very Long
7	Airplane Sierra	A Touching Saga of a Hunter /	62	Short
9	Alabama Devil	A Thoughtful Panorama of a D	114	Very Long
10	Aladdin Calendar	A Action-Packed Tale of a Man	63	Short
11	Alamo Videotape	A Boring Epistle of a Butler An	126	Very Long
12	Alaska Phantom	A Fanciful Saga of a Hunter An	136	Very Long
213	Date Speed	A Touching Saga of a Compos	104	Very Long

5. Dari tabel rental dan payment, tunjukkan 10 baris rental_id, rental_date, payment_id, dan amount. Ordered by amount in ascending order.

```sql
select
    rental.rental_id,
    rental.rental_date,
    payment.payment_id,
    payment.amount
from
    rental
inner join
    payment ON rental.rental_id = payment.rental_id
order by
    payment.amount asc
limit 10;
```

	rental_id	rental_date	payment_id	amount
1	13,577	2006-02-14 15:16:03.000	31,966	0
2	14,425	2006-02-14 15:16:03.000	31,996	0
3	12,959	2006-02-14 15:16:03.000	31,925	0
4	14,769	2006-02-14 15:16:03.000	31,946	0
5	14,516	2006-02-14 15:16:03.000	31,970	0
6	12,915	2006-02-14 15:16:03.000	31,983	0
7	13,713	2006-02-14 15:16:03.000	31,918	0
8	12,610	2006-02-14 15:16:03.000	31,920	0
9	11,782	2006-02-14 15:16:03.000	31,942	0
10	13,464	2006-02-14 15:16:03.000	32,001	0

10 row(s) fetched - 0.009s, on 2024-09-20 at 22:52:15

6. Gabungkan address (seluruh kolom) yang memiliki city_id = 42 dengan city_id=300. Gunakan UNION

```sql
select * from address a where city_id = 32
union
select * from address a where city_id = 300;
```

	address_id	address	address2	district	city_id	postal_code	phone	last_updat
1	3	23 Workhaven Lane	[NULL]	Alberta	300		14033335568	2006-02-15
2	1	47 MySakila Drive	[NULL]	Alberta	300			2006-02-15
3	365	1009 Zanzibar Lane		Arecibo	32	64875	102396298916	2006-02-15

Lampiran :

```sql
--No 2
select
      first_name, last_name
from
      actor a
where
      first_name = 'Jennifer' or first_name = 'Nick' or first_name = 'Ed'

--No 3
select
      payment_id , sum(amount) as total_amount
from
      payment p
group by
      payment_id
having
      sum(amount) > 5.99;

--No 4
select
      film_id ,title , description ,length,
case
      when length > 100 then 'Very Long'
      when length between 87 and 100 then 'Long'
      when length between 72 and 86 then 'Medium'
      when length < 72 then 'Short'
end as
      duration_category
from
      film;

--No 5
select
    rental.rental_id,
    rental.rental_date,
    payment.payment_id,
    payment.amount
from
    rental
inner join
    payment ON rental.rental_id = payment.rental_id
order by
    payment.amount asc
limit 10;

--No 6
select * from address a where city_id = 32
union
select * from address a where city_id = 300;
```