ASSIGMENT DAY-12 SQL II
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DS BOOTCAMP BATCH 27

1. Buatlah database bernama ‘dibimbing’. Buat table dengan nama table ‘students’ di schema ‘public’ berisi kolom ‘id’(int), ‘nama’ (varchar), ‘institute’(varchar), ‘berat_badan’ (float), ‘tinggi_badan’ (float). Isi table tersebut minimal 5 data dengan value yang berbeda-beda. Value dibebaskan isinya

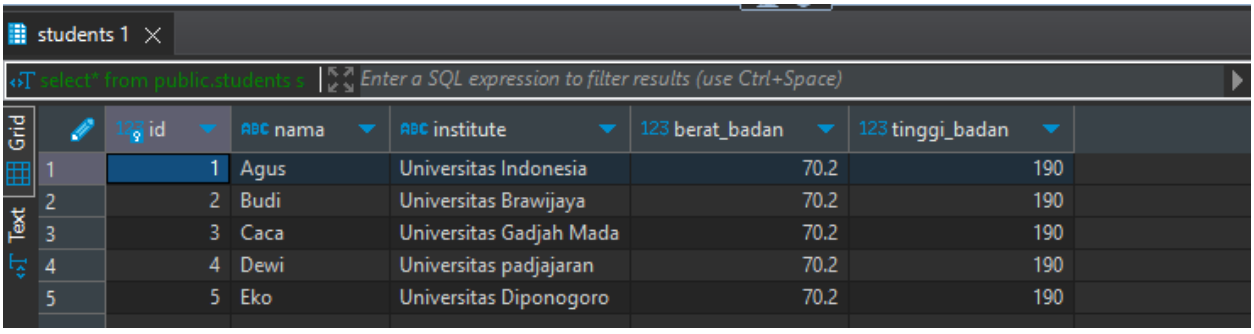
SQL QUERY:

```
create table public.students(
id INT primary key,
nama varchar(50),
institute varchar(100),
berat_badan float,
tinggi_badan float);

insert into public.students( id,nama,institute,berat_badan,tinggi_badan)
values
(1, 'Agus', 'Universitas Indonesia', 70.2, 190),
(2, 'Budi', 'Universitas Brawijaya', 70.2, 190),
(3, 'Caca', 'Universitas Gadjah Mada', 70.2, 190),
(4, 'Dewi', 'Universitas padjajaran', 70.2, 190),
(5, 'Eko', 'Universitas Diponogoro', 70.2, 190);

select*
from public.students s ;
```

output :



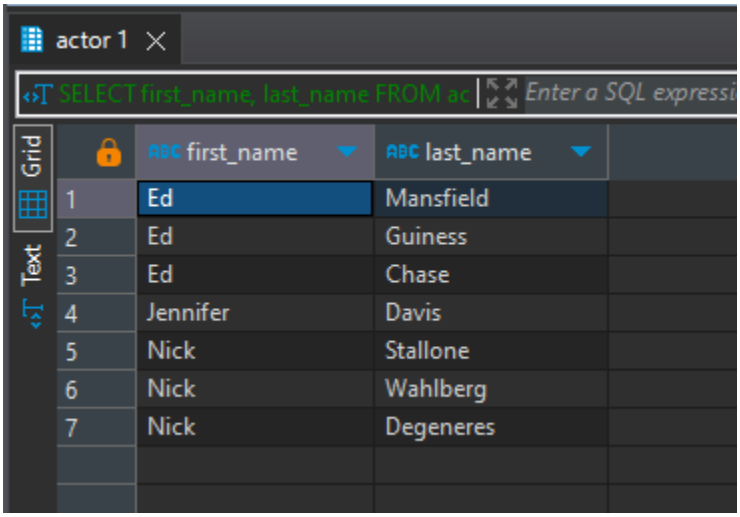
	id	nama	institute	berat_badan	tinggi_badan
1	1	Agus	Universitas Indonesia	70.2	190
2	2	Budi	Universitas Brawijaya	70.2	190
3	3	Caca	Universitas Gadjah Mada	70.2	190
4	4	Dewi	Universitas padjajaran	70.2	190
5	5	Eko	Universitas Diponogoro	70.2	190

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

SQL QUERY:

```
SELECT first_name, last_name
FROM actor
WHERE first_name IN ('Jennifer', 'Nick', 'Ed')
order by first_name;
```

output :



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

SQL QUERY:

```
SELECT payment_id, SUM(amount) AS total_amount
FROM payment
GROUP BY payment_id
HAVING SUM(amount) > 5.99
limit 10;
```

output :

payment 1

SELECT payment_id, SUM(amount) AS | Enter a SQL expression to filter results (use Ctrl+Space)

	payment_id	total_amount
1	17,503	7.99
2	17,505	7.99
3	17,507	7.99
4	17,513	6.99
5	17,516	6.99
6	17,517	8.99
7	17,529	8.99
8	17,532	8.99
9	17,533	7.99
10	17,535	8.99

4. Tunjukkan 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 QUERY:

```
SELECT
   film.film_id,
   film.title,
   film.description,
   film.length AS film_length,
   CASE
      WHEN film.length > 100 THEN 'Long Movies'
      WHEN film.length BETWEEN 87 AND 100 THEN 'Medium-Long Movies'
      WHEN film.length BETWEEN 72 AND 86 THEN 'Medium Movies'
      ELSE 'Short Movies'
   END AS length_category
FROM
   film;
```

output :

film 1

SELECT film.film_id, film.title, film.desc | Enter a SQL expression to filter results (use Ctrl+Space)

	film_id	title	description	film_length	length_category
4	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conqu	73	Medium Movies
5	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battl	86	Medium Movies
6	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explore	48	Short Movies
7	3	Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must S	50	Short Movies
8	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who mu	117	Long Movies
9	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who	130	Long Movies
10	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a S	169	Long Movies
11	7	Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a	62	Short Movies
12	9	Alabama Devil	A Thoughtful Panorama of a Database Administrator And a Mac	114	Long Movies
13	10	Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Re	63	Short Movies
14	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry C	126	Long Movies
15	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanqu	136	Long Movies
16	213	Date Speed	A Touching Saga of a Composer And a Moose who must Disco	104	Long Movies
17	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must	150	Long Movies
18	14	Alice Fantasia	A Emotional Drama of a A Shark And a Database Administrator	94	Medium-Long Movie
19	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who must Battle	46	Short Movies

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

SQL QUERY:

```
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;
```

Output :

rental(+) 1

SELECT rental.rental_id, rental.rental_da | Enter a SQL expression to filter results (use Ctrl+Space)

	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

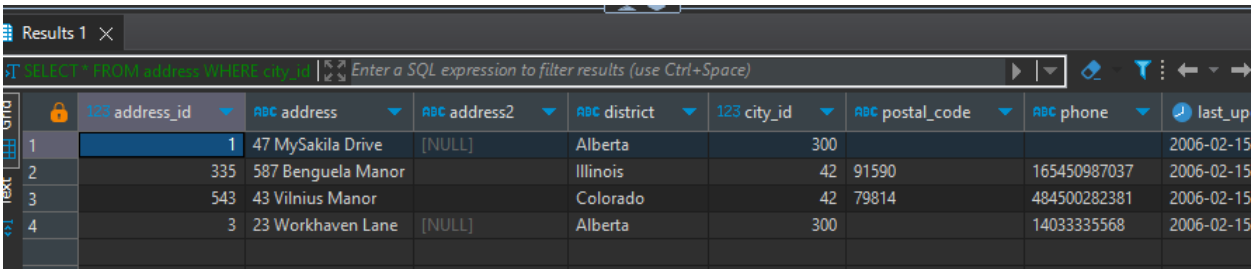
6. Gabungkan address (seluruh kolom) yang memiliki city_id = 42 dengan city_id=300. Gunakan UNION

SQL QUERY:

```
ELECT *
FROM address
WHERE city_id = 42
UNION
SELECT *
FROM address
```

WHERE city_id = 300;

Output:



	address_id	address	address2	district	city_id	postal_code	phone	last_up
1	1	47 MySakila Drive	[NULL]	Alberta	300			2006-02-15
2	335	587 Benguela Manor		Illinois	42	91590	165450987037	2006-02-15
3	543	43 Vilnius Manor		Colorado	42	79814	484500282381	2006-02-15
4	3	23 Workhaven Lane	[NULL]	Alberta	300		14033335568	2006-02-15