

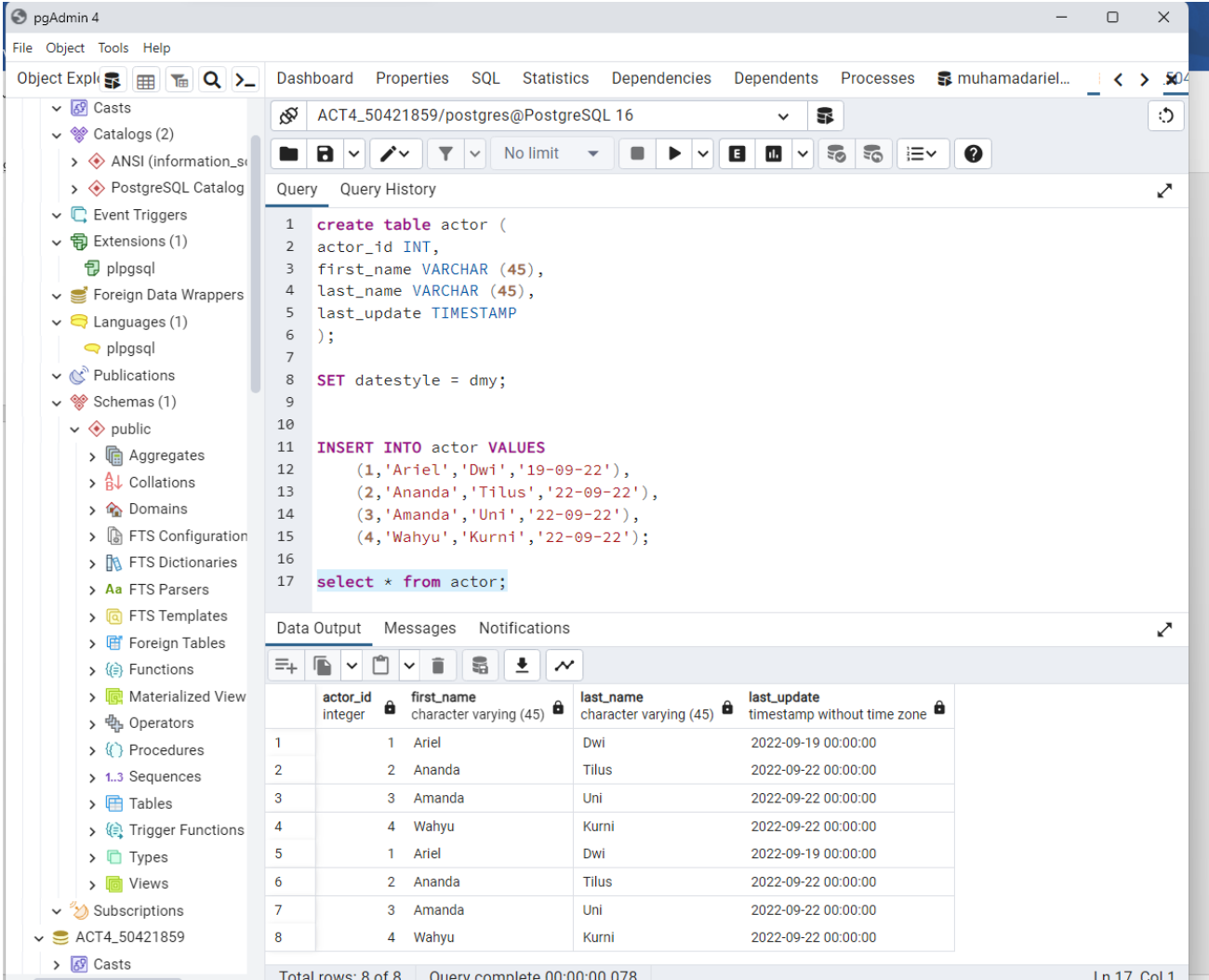
# LAPORAN AKHIR PRAKTIKUM

Mata Praktikum : SBD1  
Kelas : 3IA19  
Praktikum : 4  
Tanggal : 11-06-2023  
Materi : DML & Ekspresi Aritmatika  
NPM : 50421859  
Nama : Muhamad Ariel D.P  
Ketua Asisten :  
Nama Asisten : Annisya Amanda  
Paraf Asisten :  
Jumlah Lembar : 9



**LABORATORIUM INFORMATIKA  
UNIVERSITAS GUNADARMA  
2023**

## LISTING



The screenshot displays the pgAdmin 4 interface. The left sidebar shows the database structure, including Schemas (1) and public. The main pane shows the SQL query editor with the following code:

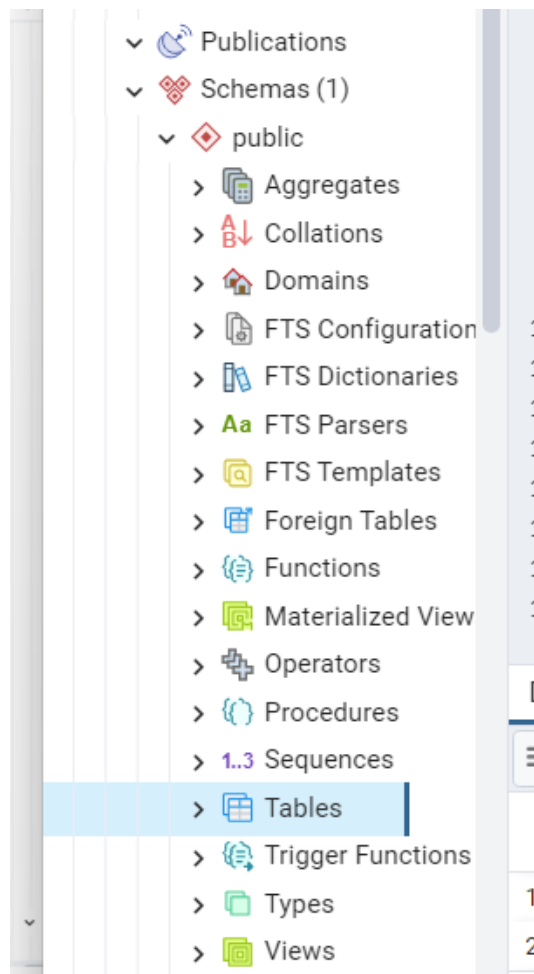
```
1 create table actor (  
2 actor_id INT,  
3 first_name VARCHAR (45),  
4 last_name VARCHAR (45),  
5 last_update TIMESTAMP  
6 );  
7  
8 SET datestyle = dmy;  
9  
10  
11 INSERT INTO actor VALUES  
12 (1,'Ariel','Dwi','19-09-22'),  
13 (2,'Ananda','Tilus','22-09-22'),  
14 (3,'Amanda','Uni','22-09-22'),  
15 (4,'Wahyu','Kurni','22-09-22');  
16  
17 select * from actor;
```

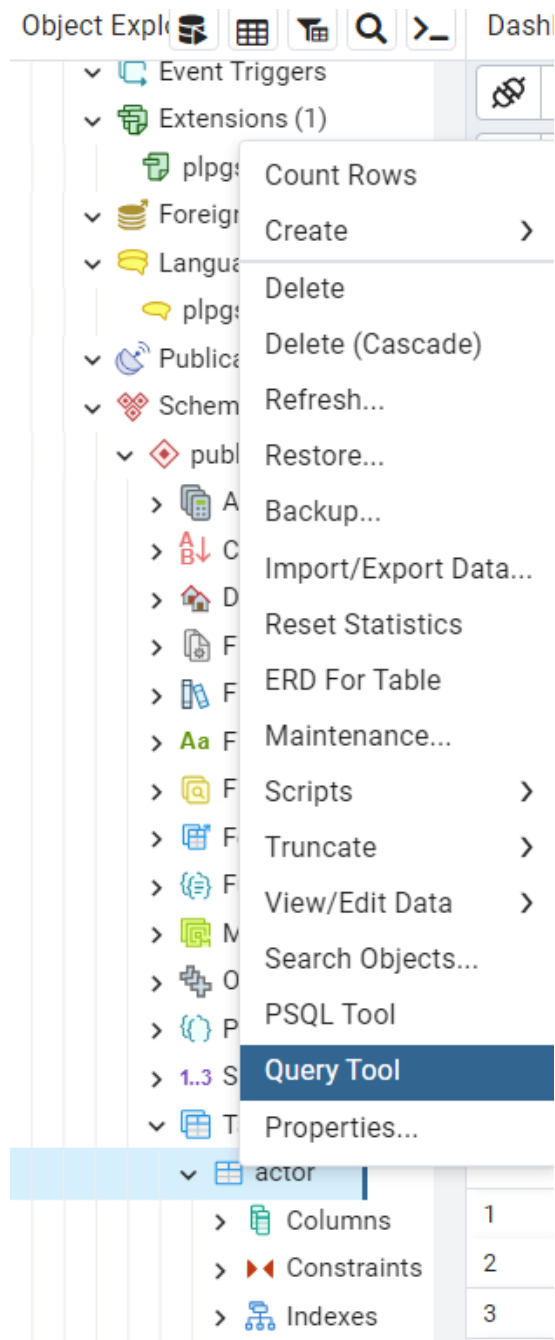
The Data Output pane shows the results of the query:

	actor_id integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	1	Ariel	Dwi	2022-09-19 00:00:00
2	2	Ananda	Tilus	2022-09-22 00:00:00
3	3	Amanda	Uni	2022-09-22 00:00:00
4	4	Wahyu	Kurni	2022-09-22 00:00:00
5	1	Ariel	Dwi	2022-09-19 00:00:00
6	2	Ananda	Tilus	2022-09-22 00:00:00
7	3	Amanda	Uni	2022-09-22 00:00:00
8	4	Wahyu	Kurni	2022-09-22 00:00:00

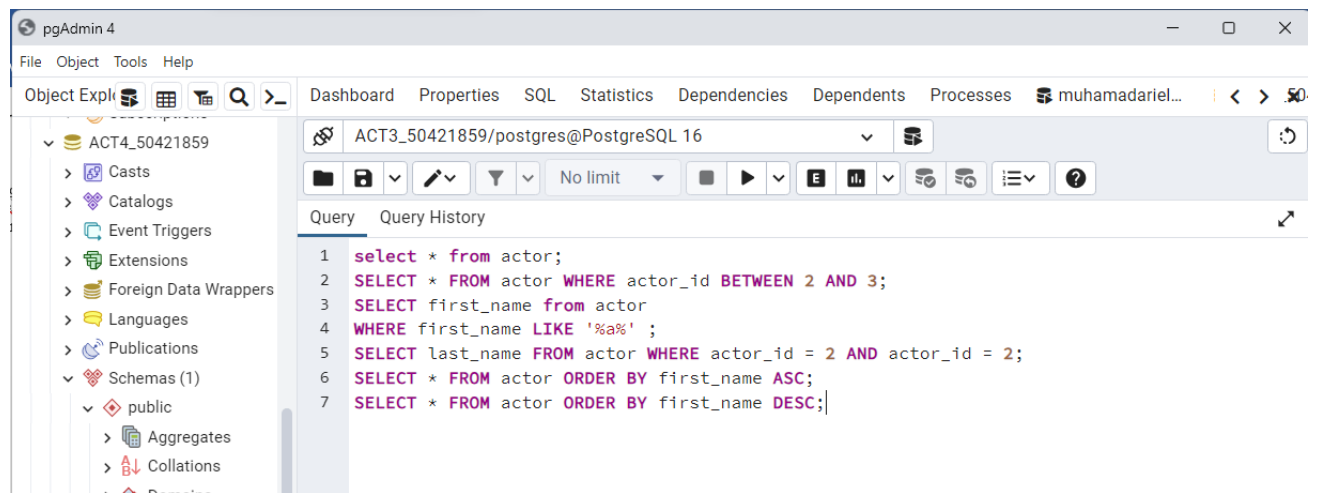
Total rows: 8 of 8 Query complete 00:00:00.078

Pertama Buka terlebih dahulu data base Act4 masukan kodingan seperti diatas berfungsi membuat tabel dengan nama tabel actor .





Setelah itu kita buka Kembali table actor dengan cara buka file act yang diinginkan – schemas – actor – klik kanan Query tool



Selanjutnya masukan kodingan ini Berikut adalah penjelasan dari setiap query SQL yang Anda berikan:

SELECT \* FROM actor;; Query ini akan mengambil semua kolom dan semua baris dari tabel 'actor'.

SELECT \* FROM actor WHERE actor\_id BETWEEN 2 AND 3;; Query ini akan mengambil semua kolom dari tabel 'actor' di mana nilai 'actor\_id' berada di antara 2 dan 3.

SELECT first\_name from actor WHERE first\_name LIKE '%a%'; Query ini akan mengambil kolom 'first\_name' dari tabel 'actor' di mana 'first\_name' mengandung huruf 'a' di mana saja dalam string.

SELECT last\_name FROM actor WHERE actor\_id = 2 AND actor\_id = 2;; Query ini tampaknya memiliki kondisi yang berulang dan mungkin tidak benar. Biasanya, Anda akan menggunakan operator AND untuk dua kondisi yang berbeda. Misalnya, WHERE actor\_id = 2 AND first\_name = 'John'.

SELECT \* FROM actor ORDER BY first\_name ASC;; Query ini akan mengambil semua kolom dan semua baris dari tabel 'actor', dan kemudian mengurutkannya dalam urutan ascending (A-Z) berdasarkan kolom 'first\_name'.

SELECT \* FROM actor ORDER BY first\_name DESC;; Query ini akan mengambil semua kolom dan semua baris dari tabel 'actor', dan kemudian mengurutkannya dalam urutan descending (Z-A) berdasarkan kolom 'first\_name'.

## OUTPUT

The screenshot shows the pgAdmin 4 interface. On the left, the Object Explorer shows the database structure, with the 'actor' table selected under the 'public' schema. The main pane displays a SQL query with seven lines of code. Below the query, the 'Data Output' tab shows the results of the query, which are five rows of data from the 'actor' table. The columns are 'actor\_id', 'first\_name', 'last\_name', and 'last\_update'.

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadriel...

ACT3\_50421859/postgres@PostgreSQL 16

Query Query History

```
1 select * from actor;
2 SELECT * FROM actor WHERE actor_id BETWEEN 2 AND 3;
3 SELECT first_name from actor
4 WHERE first_name LIKE '%a%';
5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	actor_id integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	1	Muhamad	Ariel	2022-12-08 00:00:00
2	2	Ananda	Tilus	2022-12-08 00:00:00
3	3	Amanda	Uni	2022-05-01 00:00:00
4	4	Wahyu	Kurni	2022-05-11 00:00:00
5	5	Amanda	Nurmawan	2020-12-03 00:00:00

pgAdmin 4

File Object Tools Help

Object Explorer

- Event Triggers
- Extensions (1)
  - plpgsql
- Foreign Data Wrappers
- Languages (1)
  - plpgsql
- Publications
- Schemas (1)
  - public
    - Aggregates
    - Collations
    - Domains
    - FTS Configuration
    - FTS Dictionaries
    - FTS Parsers
    - FTS Templates
    - Foreign Tables
    - Functions
    - Materialized View
    - Operators
    - Procedures
    - Sequences
    - Tables (1)
      - actor
        - Columns
        - Constraints
        - Indexes

Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadariel...

ACT3\_50421859/postgres@PostgreSQL 16

Query Query History

```
1 select * from actor;
2 SELECT * FROM actor WHERE actor_id BETWEEN 2 AND 3;
3 SELECT first_name from actor
4 WHERE first_name LIKE '%a%';
5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	actor_id integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	2	Ananda	Tilus	2022-12-08 00:00:00
2	3	Amanda	Uni	2022-05-01 00:00:00

pgAdmin 4

File Object Tools Help

Object Explorer

- Event Triggers
- Extensions (1)
  - plpgsql
- Foreign Data Wrappers
- Languages (1)
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    - FTS Templates
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    - Operators
    - Procedures
    - Sequences
    - Tables (1)
      - actor
        - Columns
        - Constraints
        - Indexes
        - RLS Policies
        - Rules
        - Triggers

Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadariel...

ACT3\_50421859/postgres@PostgreSQL 16

Query Query History

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1 select * from actor;
2 SELECT * FROM actor WHERE actor_id BETWEEN 2 AND 3;
3 SELECT first_name from actor
4 WHERE first_name LIKE '%a%';
5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	first_name character varying (45)
1	Muhamad
2	Ananda
3	Amanda
4	Wahyu
5	Amanda

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadriel...

Event Triggers Extensions (1) plpgsql Foreign Data Wrappers Languages (1) plpgsql Publications Schemas (1) public Aggregates Collations Domains FTS Configuration FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized View Operators Procedures Sequences Tables (1) actor Columns Constraints

ACT3\_50421859/postgres@PostgreSQL 16

Query Query History

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1 select * from actor;
2 SELECT * FROM actor WHERE actor_id BETWEEN 2 AND 3;
3 SELECT first_name from actor
4 WHERE first_name LIKE '%a%';
5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	last_name
1	Tilus

pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadriel...

Event Triggers Extensions (1) plpgsql Foreign Data Wrappers Languages (1) plpgsql Publications Schemas (1) public Aggregates Collations Domains FTS Configuration FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized View Operators Procedures Sequences Tables (1) actor Columns Constraints Indexes RLS Policies Rules Triggers

ACT3\_50421859/postgres@PostgreSQL 16

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1 select * from actor;
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5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	actor_id	first_name	last_name	last_update
	integer	character varying (45)	character varying (45)	timestamp without time zone
1	3	Amanda	Uni	2022-05-01 00:00:00
2	5	Amanda	Nurmawan	2020-12-03 00:00:00
3	2	Ananda	Tilus	2022-12-08 00:00:00
4	1	Muhamad	Ariel	2022-12-08 00:00:00
5	4	Wahyu	Kurni	2022-05-11 00:00:00



pgAdmin 4

File Object Tools Help

Object Explorer Dashboard Properties SQL Statistics Dependencies Dependents Processes muhamadariel...

Event Triggers Extensions (1) plpgsql Foreign Data Wrappers Languages (1) plpgsql Publications Schemas (1) public Aggregates Collations Domains FTS Configuration FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized View Operators Procedures Sequences Tables (1) actor Columns Constraints Indexes RLS Policies Rules Triggers

ACT3\_50421859/postgres@PostgreSQL 16

No limit

Query Query History

```
1 select * from actor;
2 SELECT * FROM actor WHERE actor_id BETWEEN 2 AND 3;
3 SELECT first_name from actor
4 WHERE first_name LIKE '%a%';
5 SELECT last_name FROM actor WHERE actor_id = 2 AND actor_id = 2;
6 SELECT * FROM actor ORDER BY first_name ASC;
7 SELECT * FROM actor ORDER BY first_name DESC;
```

Data Output Messages Notifications

	actor_id integer	first_name character varying (45)	last_name character varying (45)	last_update timestamp without time zone
1	4	Wahyu	Kurni	2022-05-11 00:00:00
2	1	Muhamad	Ariel	2022-12-08 00:00:00
3	2	Ananda	Tilus	2022-12-08 00:00:00
4	3	Amanda	Uni	2022-05-01 00:00:00
5	5	Amanda	Nurmawan	2020-12-03 00:00:00