

## **LAPORAN ACTIVITY**

Mata Praktikum : Sistem Basis Data 1  
Kelas : 3IA24  
Praktikum ke- : 2  
Tanggal : 28 November 2023  
Materi : DTL & Ekspresi Aritmatika  
NPM : 50421704  
Nama : Juan Samuel Christopher  
Ketua Asisten : Madanil  
Nama Asisten :  
Paraf Asisten :  
Jumlah Lembar : 5

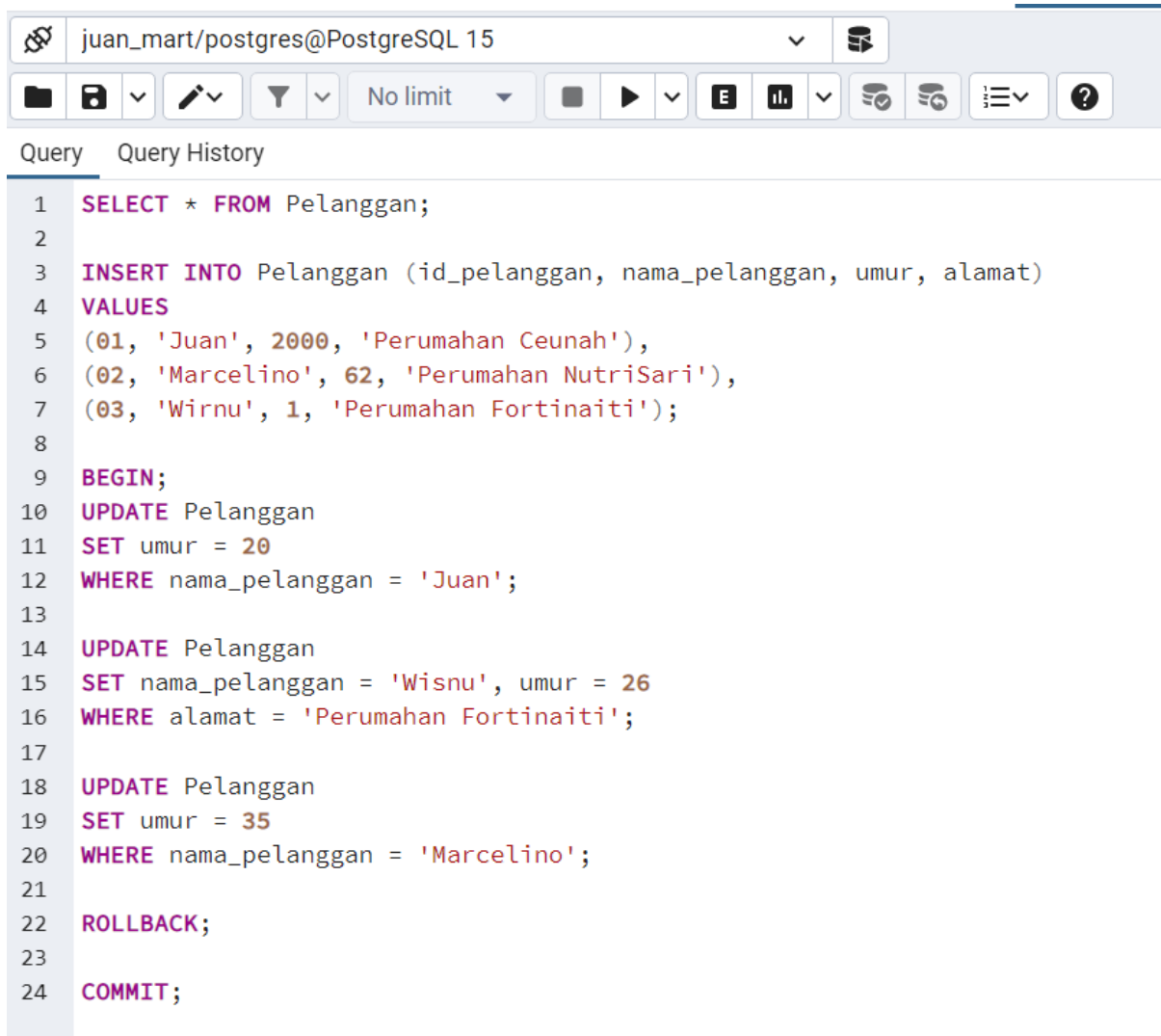


**LABORATORIUM TEKNIK INFORMATIKA**

**UNIVERSITAS GUNADARMA**

**2023**

## LISTING



The screenshot shows a PostgreSQL client window titled 'juan\_mart/postgres@PostgreSQL 15'. The interface includes a toolbar with icons for file operations, query execution, and settings. Below the toolbar, there are tabs for 'Query' and 'Query History'. The main area displays a SQL script with line numbers 1 through 24. The script performs a SELECT, INSERT, and several UPDATE operations on a table named 'Pelanggan', followed by a ROLLBACK and a COMMIT.

```
1 SELECT * FROM Pelanggan;
2
3 INSERT INTO Pelanggan (id_pelanggan, nama_pelanggan, umur, alamat)
4 VALUES
5 (01, 'Juan', 2000, 'Perumahan Ceunah'),
6 (02, 'Marcelino', 62, 'Perumahan NutriSari'),
7 (03, 'Wirnu', 1, 'Perumahan Fortinaiti');
8
9 BEGIN;
10 UPDATE Pelanggan
11 SET umur = 20
12 WHERE nama_pelanggan = 'Juan';
13
14 UPDATE Pelanggan
15 SET nama_pelanggan = 'Wisnu', umur = 26
16 WHERE alamat = 'Perumahan Fortinaiti';
17
18 UPDATE Pelanggan
19 SET umur = 35
20 WHERE nama_pelanggan = 'Marcelino';
21
22 ROLLBACK;
23
24 COMMIT;
```

## OUTPUT

- Menambahkan 3 buah data baru

```
3 INSERT INTO Pelanggan (id_pelanggan, nama_pelanggan, umur, alamat)
4 VALUES
5 (01, 'Juan', 2000, 'Perumahan Ceunah'),
6 (02, 'Marcelino', 62, 'Perumahan NutriSari'),
7 (03, 'Wirnu', 1, 'Perumahan Fortinaiti');
```

Data Output Messages Notifications

	id_pelanggan [PK] character varying (20)	nama_pelanggan character varying (30)	umur integer	alamat character varying (50)
1	1	Juan	2000	Perumahan Ceunah
2	2	Marcelino	62	Perumahan NutriSari
3	3	Wirnu	1	Perumahan Fortinaiti

- Melakukan update pada 3 data

juan\_marti/postgres@PostgreSQL 15

Query Query History

```
3 INSERT INTO Pelanggan (id_pelanggan, nama_pelanggan, umur, alamat)
4 VALUES
5 (01, 'Juan', 2000, 'Perumahan Ceunah'),
6 (02, 'Marcelino', 62, 'Perumahan NutriSari'),
7 (03, 'Wirnu', 1, 'Perumahan Fortinaiti');
8
9 BEGIN;
10 UPDATE Pelanggan
11 SET umur = 20
12 WHERE nama_pelanggan = 'Juan';
13
14 UPDATE Pelanggan
15 SET nama_pelanggan = 'Wirnu', umur = 26
16 WHERE alamat = 'Perumahan Fortinaiti';
17
18 UPDATE Pelanggan
19 SET umur = 35
20 WHERE nama_pelanggan = 'Marcelino';
```

Data Output Messages Notifications

	id_pelanggan [PK] character varying (20)	nama_pelanggan character varying (30)	umur integer	alamat character varying (50)
1	1	Juan	20	Perumahan Ceunah
2	3	Wirnu	26	Perumahan Fortinaiti
3	2	Marcelino	35	Perumahan NutriSari

- Melakukan ROLLBACK (maka data akan Kembali ke awal pembuatan)

The screenshot shows a PostgreSQL 15 IDE window with a SQL query that updates the 'Pelanggan' table. The query includes a ROLLBACK statement at the end. Below the query, the 'Data Output' tab displays the current state of the table.

```

5 (01, 'Juan', 2000, 'Perumahan Ceunah');
6 (02, 'Marcelino', 62, 'Perumahan NutriSari');
7 (03, 'Wirnu', 1, 'Perumahan Fortinaiti');
8
9 BEGIN;
10 UPDATE Pelanggan
11 SET umur = 20
12 WHERE nama_pelanggan = 'Juan';
13
14 UPDATE Pelanggan
15 SET nama_pelanggan = 'Wisnu', umur = 26
16 WHERE alamat = 'Perumahan Fortinaiti';
17
18 UPDATE Pelanggan
19 SET umur = 35
20 WHERE nama_pelanggan = 'Marcelino';
21
22 ROLLBACK;
  
```

	id_pelanggan [PK] character varying (20)	nama_pelanggan character varying (30)	umur integer	alamat character varying (50)
1	1	Juan	2000	Perumahan Ceunah
2	2	Marcelino	62	Perumahan NutriSari
3	3	Wirnu	1	Perumahan Fortinaiti

- Melakukan Commit pada table

The screenshot shows the same PostgreSQL 15 IDE window, but the SQL query now includes a COMMIT statement at the end. The 'Data Output' tab shows the updated state of the table after the commit.

```

7 (03, 'WIRNU', 1, 'Perumahan Fortinaiti');
8
9 BEGIN;
10 UPDATE Pelanggan
11 SET umur = 20
12 WHERE nama_pelanggan = 'Juan';
13
14 UPDATE Pelanggan
15 SET nama_pelanggan = 'Wisnu', umur = 26
16 WHERE alamat = 'Perumahan Fortinaiti';
17
18 UPDATE Pelanggan
19 SET umur = 35
20 WHERE nama_pelanggan = 'Marcelino';
21
22 ROLLBACK;
23
24 COMMIT;
  
```

	id_pelanggan [PK] character varying (20)	nama_pelanggan character varying (30)	umur integer	alamat character varying (50)
1	1	Juan	20	Perumahan Ceunah
2	3	Wisnu	26	Perumahan Fortinaiti
3	2	Marcelino	35	Perumahan NutriSari

- Jika sudah di commit , maka jika ingin rollback tidak akan bisa

```

22 ROLLBACK;
23
24 COMMIT;

```

Data Output   Messages   Notifications

WARNING: there is no transaction in progress  
ROLLBACK

Query returned successfully in 132 msec.

- Tampilan table akhir

Data Output   Messages   Notifications				
	id_pelanggan [PK] character varying (20)	nama_pelanggan character varying (30)	umur integer	alamat character varying (50)
1	1	Juan	20	Perumahan Ceunah
2	3	Wisnu	26	Perumahan Fortinaiti
3	2	Marcelino	35	Perumahan NutriSari