Tugas TM10

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Soal

1. Gunakan *database* album seperti soal praktikum query.

2. Buatlah user berupa admin_toko dan admin_album. Tuliskan query yang dibuat dan screenshot pembuktian bahwa user sudah terdaftar.

3. Buatlah hak akses untuk kedua user tersebut menggunakan role dimana:

   a. admin_toko : select, insert, update Tabel Receipt dan DetailItem serta select Tabel Singer dan Album

   b. admin_album: select, insert, update Tabel Singer dan Album

   Tuliskan query dan screenshot pembuktian hak akses masing-masing user.

4. Buatlah 1 file backup dari database album dan restore ke database baru bernama newAlbum. Tampilkan hasil akhir berupa bukti backup telah berhasil.

Jawaban

1. Hasil

Query

```
-- Buatlah user admin_toko
CREATE USER admin_toko WITH PASSWORD 'admin_toko'

-- Buatlah user admin_album
CREATE USER admin_album WITH PASSWORD 'admin_album'

-- Cara cek semua User
SELECT usename FROM pg_user;
```
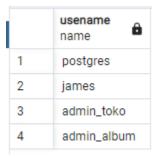
Screenshot

	usename 🔒 name
1	postgres
2	james
3	admin_toko
4	admin_album

2. Hasil

Query

```
-- Buatlah GRANT pada user admin_toko
CREATE ROLE admin_toko;
GRANT SELECT, INSERT, UPDATE ON TABLE Receipt TO admin_toko;
GRANT SELECT, INSERT, UPDATE ON TABLE DetailItem TO admin_toko;
GRANT SELECT ON TABLE Singer TO admin_toko;
GRANT SELECT ON TABLE Album TO admin_toko;

-- Buatlah GRANT pada user admin_album
CREATE ROLE admin_album;
GRANT SELECT, INSERT, UPDATE ON TABLE Singer TO admin_album;
GRANT SELECT, INSERT, UPDATE ON TABLE Album TO admin_album;
```
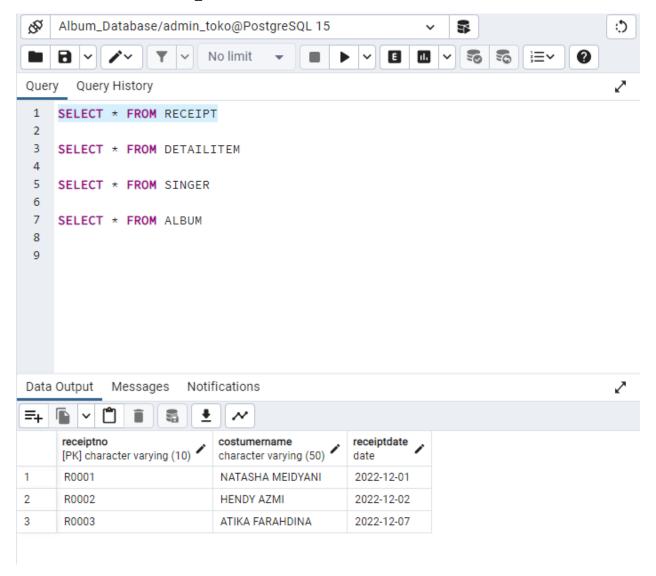
Screenshot

➢ Cek Role di Postgresql

	rolname 🔒 name
1	pg_database_owner
2	pg_read_all_data
3	pg_write_all_data
4	pg_monitor
5	pg_read_all_settings
6	pg_read_all_stats
7	pg_stat_scan_tables
8	pg_read_server_files
9	pg_write_server_files
10	pg_execute_server_program
11	pg_signal_backend
12	pg_checkpoint
13	postgres
14	james
15	admin_toko
16	admin_album

➢ Masuk Ke User Admin_Toko
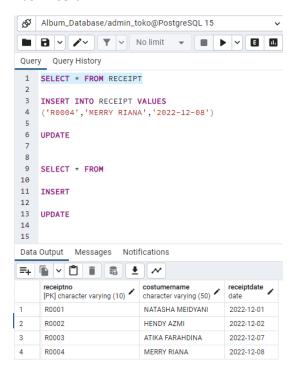
➢ SELECT, INSERT, DAN UPDATE table RECEIPT

Hasil Select

Hasil Insert

Album_Database/admin_toko@PostgreSQL 15

Query | Query History

```
1  SELECT * FROM RECEIPT
2
3  INSERT INTO RECEIPT VALUES
4  ('R0004','MERRY RIANA','2022-12-08')
5
6  UPDATE
7
8
9  SELECT * FROM
10
11  INSERT
12
13  UPDATE
14
15
```

Data Output | Messages | Notifications

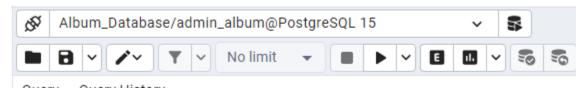|	receiptno [PK] character varying (10)	costumername character varying (50)	receiptdate date
1	R0001	NATASHA MEIDYANI	2022-12-01
2	R0002	HENDY AZMI	2022-12-02
3	R0003	ATIKA FARAHDINA	2022-12-07
4	R0004	MERRY RIANA	2022-12-08

Hasil Update

```
1  SELECT * FROM RECEIPT
2
3  INSERT INTO RECEIPT VALUES
4  ('R0004','MERRY RIANA','2022-12-08')
5
6  UPDATE RECEIPT SET receiptdate = '2022-12-10' WHERE costumername = 'MERRY RIANA'
7
8
9  SELECT * FROM
10
11  INSERT
12
13  UPDATE
14
15
16
17
18
19
20
21
```

Data Output | Messages | Notifications

	receiptno [PK] character varying (10)	costumername character varying (50)	receiptdate date
1	R0001	NATASHA MEIDYANI	2022-12-01
2	R0002	HENDY AZMI	2022-12-02
3	R0003	ATIKA FARAHDINA	2022-12-07
4	R0004	MERRY RIANA	2022-12-10

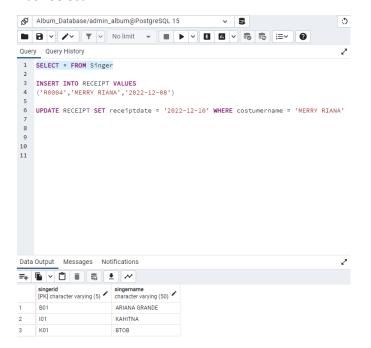## Hasil Select table Detailitem

```
1  SELECT * FROM RECEIPT
2
3  INSERT INTO RECEIPT VALUES
4  ('R0004','MERRY RIANA','2022-12-08')
5
6  UPDATE RECEIPT SET receiptdate = '2022-12-10' WHERE costumername = 'MERRY RIANA
7
8
9  SELECT * FROM Detailitem
10
11  INSERT
12
13  UPDATE
14
15
16
17
18
19
20
21
```

Data Output | Messages | Notifications

	detailid [PK] character varying (10)	albumno character varying (5)	receiptno character varying (10)	amount integer	totalprice numeric (10,2)
1	D0001	A01	R0001	4	2304000.00
2	D0002	A02	R0001	2	1230000.00
3	D0003	A05	R0001	5	1700000.00
4	D0004	A03	R0002	2	920000.00
5	D0005	A03	R0003	8	3680000.00

➢ Masuk ke dalam akun admin_album

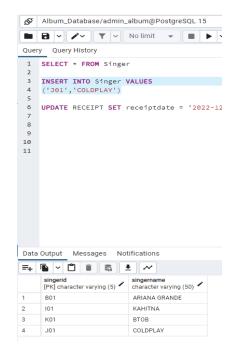Album_Database/admin_album@PostgreSQL 15

➢ SELECT, INSERT, UPDATE Tabel Singer dan Album
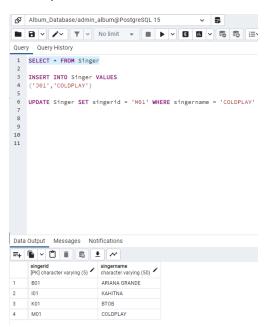
Hasil Select
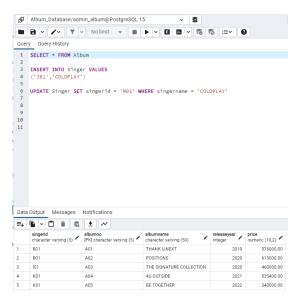
Hasil Insert

Hasil Update

Hasil Select table

3. Backup dan Restore

Bukti Hasil Backup dan Restore

			PID	Type	Server	Object	Start Time ˅	Status	Time Taken (sec)
☐	⊗	📄	31208	Restore	PostgreSQL 15 (localhost:5432)	NewAlbum	4/13/2023, 2:03:36 PM	Finished	0.22
☐	⊗	📄	26172	Backup Object	PostgreSQL 15 (localhost:5432)	Album_Database	4/13/2023, 2:00:52 PM	Finished	0.26

Hasil Restore

- ⌄ 🗄 NewAlbum
  - 〉 🔢 Casts
  - 〉 ✳ Catalogs
  - 〉 📇 Event Triggers
  - 〉 🗃 Extensions
  - 〉 🗄 Foreign Data Wrappers
  - 〉 🗩 Languages
  - 〉 📡 Publications
  - ⌄ ✳ Schemas (1)
    - ⌄ ◈ public
      - 〉 📑 Aggregates
      - 〉 🔤 Collations
      - 〉 🏠 Domains
      - 〉 📄 FTS Configurations
      - 〉 📚 FTS Dictionaries
      - 〉 Aa FTS Parsers
      - 〉 🔍 FTS Templates
      - 〉 📋 Foreign Tables
      - 〉 ⦗≡⦘ Functions
      - 〉 📗 Materialized Views
      - 〉 🧩 Operators
      - 〉 ⦃⦄ Procedures
      - 〉 1..3 Sequences
      - ⌄ 📑 Tables (4)
        - 〉 📋 album
        - 〉 📋 detailitem
        - 〉 📋 receipt
        - 〉 📋 singer
      - 〉 📇 Trigger Functions
      - 〉 📗 Types
      - 〉 📗 Views