Mencoba perintah DDL

Login dari psql

```
Server [localhost]:
Database [postgres]: movie
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (16.3)
WARNING: Console code page (850) differs from Windows code page (1252)
         8-bit characters might not work correctly. See psql reference
         page "Notes for Windows users" for details.
Type "help" for help.
```

Menambah table baru

```
movie=# create table ninja (
movie(#      id int primary key,
movie(#      nama varchar,
movie(#      umur int,
movie(#      desa varchar,
movie(#      tgl_regis date
movie(# );
CREATE TABLE
```

Melihat Hasil

```
movie=# \d
            List of relations
 Schema |       Name       | Type  |  Owner
--------+------------------+-------+----------
 public | actor            | table | postgres
 public | director         | table | postgres
 public | genres           | table | postgres
 public | movie            | table | postgres
 public | movie_cast       | table | postgres
 public | movie_direction  | table | postgres
 public | movie_genres     | table | postgres
 public | ninja            | table | postgres
 public | rating           | table | postgres
 public | reviewer         | table | postgres
(10 rows)
```

Menambah dan menghapus kolom di tabel

```
movie=# alter table ninja add column email varchar;
ALTER TABLE
movie=# alter table ninja drop column umur;
ALTER TABLE
```

Melihat hasil kolom table ninja setelah dirubah fieldnya

```
movie=# \d+ ninja
                                       Table "public.ninja"
  Column   |       Type        | Collation | Nullable | Default | Storage  | Compression | Stats target | Description
-----------+-------------------+-----------+----------+---------+----------+-------------+--------------+-------------
 id        | integer           |           | not null |         | plain    |             |              |
 nama      | character varying |           |          |         | extended |             |              |
 desa      | character varying |           |          |         | extended |             |              |
 tgl_regis | date              |           |          |         | plain    |             |              |
 email     | character varying |           |          |         | extended |             |              |
Indexes:
    "ninja_pkey" PRIMARY KEY, btree (id)
Access method: heap
```

Merubah tipe data
Tipe data awal
```
movie=# \d+ ninja
                                         Table "public.ninja"
  Column   |       Type        | Collation | Nullable | Default | Storage  | Compression | Stats target | Description
-----------+-------------------+-----------+----------+---------+----------+-------------+--------------+-------------
 id        | integer           |           | not null |         | plain    |             |              |
 nama      | character varying |           |          |         | extended |             |              |
 desa      | character varying |           |          |         | extended |             |              |
 tgl_regis | date              |           |          |         | plain    |             |              |
 email     | character varying |           |          |         | extended |             |              |
Indexes:
    "ninja_pkey" PRIMARY KEY, btree (id)
Access method: heap
```

Dirubah ke bigint

```
movie=# alter table ninja alter column id type bigint;
ALTER TABLE
```

Hasil
```
movie=# \d+ ninja
                                         Table "public.ninja"
  Column   |       Type        | Collation | Nullable | Default | Storage  | Compression | Stats target | Description
-----------+-------------------+-----------+----------+---------+----------+-------------+--------------+-------------
 id        | bigint            |           | not null |         | plain    |             |              |
 nama      | character varying |           |          |         | extended |             |              |
 desa      | character varying |           |          |         | extended |             |              |
 tgl_regis | date              |           |          |         | plain    |             |              |
 email     | character varying |           |          |         | extended |             |              |
Indexes:
    "ninja_pkey" PRIMARY KEY, btree (id)
Access method: heap
```

Mengganti nama kolom
```
movie=# alter table ninja rename column tgl_regis to regis_date;
ALTER TABLE
```

Hasil
```
movie=# \d+ ninja
                                         Table "public.ninja"
  Column    |       Type        | Collation | Nullable | Default | Storage  | Compression | Stats target | Description
------------+-------------------+-----------+----------+---------+----------+-------------+--------------+-------------
 id         | bigint            |           | not null |         | plain    |             |              |
 nama       | character varying |           |          |         | extended |             |              |
 desa       | character varying |           |          |         | extended |             |              |
 regis_date | date              |           |          |         | plain    |             |              |
 email      | character varying |           |          |         | extended |             |              |
Indexes:
    "ninja_pkey" PRIMARY KEY, btree (id)
Access method: heap
```

Perintah DML

```
movie=# insert into ninja (id, nama, desa, email) values (3, 'sasuke', 'konoha', 'sasuke@mail.com');
INSERT 0 1

movie=# update ninja set desa='gajelas' where nama='sasuke';
UPDATE 1

movie=# delete from ninja where nama='sasuke';
DELETE 1
```

Pemakian fungsi di sql : concat()
Menggabungkan nama depan dan belakang
```
movie=# select act_id, concat(act_fname,' ',act_lname) nama_lengkap from actor;

 act_id |   nama_lengkap
--------+-------------------
    101 | James Stewart
    102 | Deborah Kerr
    103 | Peter OToole
    104 | Robert De Niro
    105 | F. Murray Abraham
    106 | Harrison Ford
    107 | Nicole Kidman
    108 | Stephen Baldwin
    109 | Jack Nicholson
```

```
     110 | Mark Wahlberg
     111 | Woody Allen
     112 | Claire Danes
     113 | Tim Robbins
     114 | Kevin Spacey
     115 | Kate Winslet
     116 | Robin Williams
     117 | Jon Voight
     118 | Ewan McGregor
     119 | Christian Bale
     120 | Maggie Gyllenhaal
     121 | Dev Patel
     122 | Sigourney Weaver
     123 | David Aston
     124 | Ali Astin
(24 rows)
```

Ambil hanya 10 charakter dari kiri

Sebelum

```
movie=# select mov_title from movie limit 2;
   mov_title
---------------
 Vertigo
 The Innocents
(2 rows)
```

Sesudah

```
movie=# select left(mov_title, 10) from movie limit 2;
    left
------------
 Vertigo
 The Innoce
(2 rows)
```