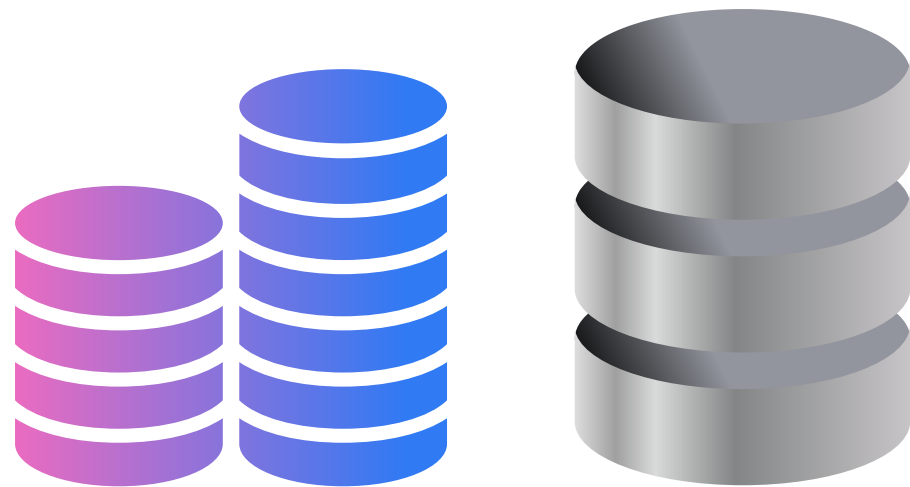


Database Week #1

Menjelajah dunia database
dengan SQL bersama
MyEduSolve

Database dan DBMS

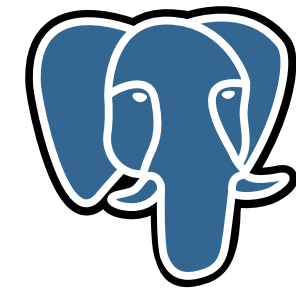
Bedanya apa?



Database sebuah tempat untuk menyimpan data dalam bentuk tabel



mongoDB



Database Management System suatu aplikasi untuk mengatur data pada database

Pembagian SQL

Data Definition Language

- Create
- Drop
- Alter

Data Manipulation Language

- Insert
- Update
- Delete

Data Query Language

- Select

Data Control Language

- Grant
- Revoke
- Commit
- Rollback

DDL Examples

Membuat database

```
create database myDatabase;
```

Mengatur kolom bersamaan

```
alter table product  
  add column expired timestamp,  
  rename column id to id_barang,  
  modify price float after quantity;
```

Membuat table baru

```
create table product(  
  id varchar(10) not null,  
  name varchar(100) not null,  
  description text,  
  price float not null,  
  quantity int not null default 0,  
  created_at timestamp not null default current_timestamp  
)
```



DML Examples

Menambahkan data baru

```
insert into product(id, name, description, price, quantity)
values ('P0001', 'Ayam kebabar Manis', 'Pasti enak', 10000, 10);
```

Memperbarui data yang ada

```
update product
set kategori = 'Makanan' where id = 'P0001';
```

Menghapus data

```
delete from product
where id = 'P0001'
```

DQL Examples

Select dengan and / or

```
select *  
from product  
where quantity > 5 and price > 10000;
```

Select dengan fungsi aritmetika

```
select price-(price*(1/10))  
from product;
```

Select dengan like

```
select Code as 'kode_negara',  
region as 'wilayah'  
from country  
where Region like ('%Europe%');
```

Select dengan fungsi agregat

```
select max(Population)  
as 'Populasi terbesar'  
from city;
```



DQL Examples (2)

Select dengan urutan dan limit

```
select name, (Population/SurfaceArea) as 'Densitas'  
from country  
where Continent = 'Asia'  
order by (Population/SurfaceArea) desc  
limit 5;
```

Select dengan grouping

```
select Continent, count(name) as 'Jumlah negara'  
from country  
group by Continent  
order by count(name) desc;
```



Thank you!

Team 3 - Data Scientist A