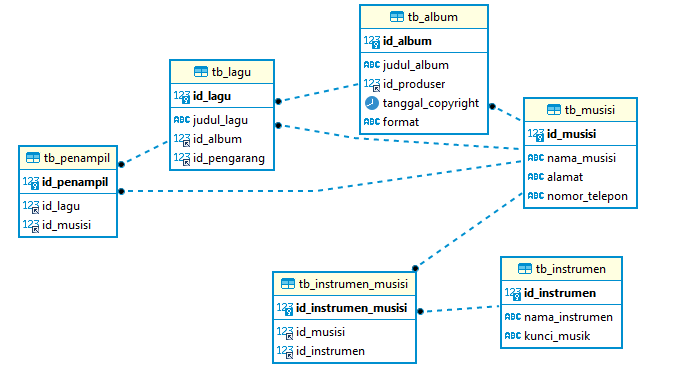
Nama: Gusti Fahmi Fadhila

Kode Peserta: JVSB001ONL012

**Requirement 1**

Berikut ini adalah ERD dari database untuk pengerjaan requirement 1:

Terdapat 6 tabel, yaitu:

1. tb\_musisi

* id\_musisi int -> Primary Key
* nama\_musisi VARCHAR
* alamat VARCHAR
* nomor\_telepon VARCHAR

1. tb\_instrumen

* id\_instrumen int -> Primary Key
* nama\_instrumen VARCHAR
* kunci\_musik VARCHAR

1. tb\_album

* id\_album int -> Primary Key
* judul\_album VARCHAR
* id\_produser int -> Foreign Key ke tabel tb\_musisi
* tanggal\_copyright DATE
* format VARCHAR

1. tb\_lagu

* id\_lagu int -> Primary Key
* judul\_album VARCHAR
* id\_album int -> Foreign Key ke tabel tb\_album
* id\_pengarang -> Foreign Key ke tabel tb\_musisi

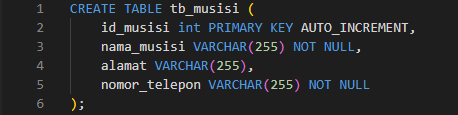
1. tb\_instrumen\_musisi (tabel yang menhubungkan relasi many to many dari tabel tb\_instrumen dan tabel tb\_musisi)

* id\_instrumen\_musisi int -> Primary Key
* id\_instrumen int -> Foreign Key ke tabel tb\_instrumen
* id\_musisi int -> Foreign Key ke tabel tb\_musisi

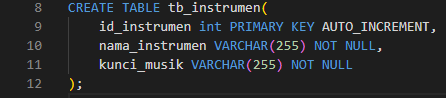
1. tb\_penampil (tabel yang menhubungkan relasi many to many dari tabel tb\_lagu dan tabel tb\_musisi)

* id\_penampil int -> Primary Key
* id\_lagu int -> Foreign Key ke tabel tb\_lagu
* id\_pengarang int -> Foreign Key ke tabel tb\_musisi

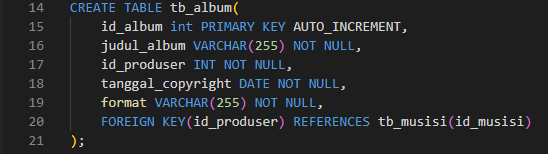
1. Buat tabel menggunakan CREATE TABLE
2. tb\_musisi



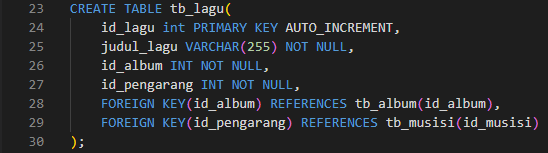
1. tb\_instrumen



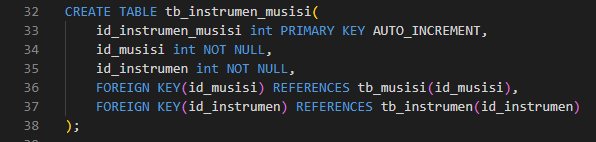
1. tb\_album



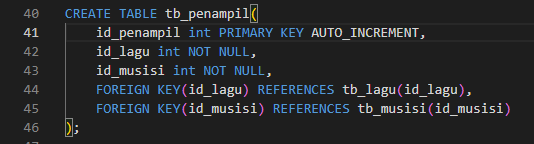
1. tb\_lagu



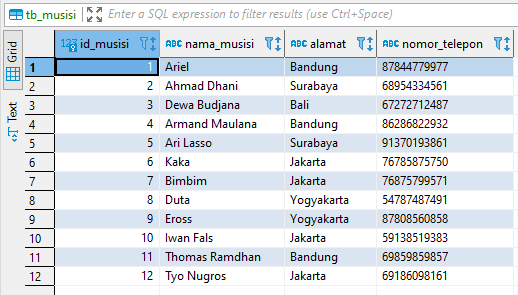
1. tb\_instrumen\_musisi



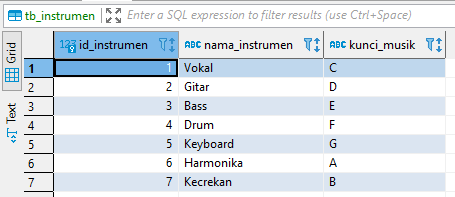
1. tb\_penampil



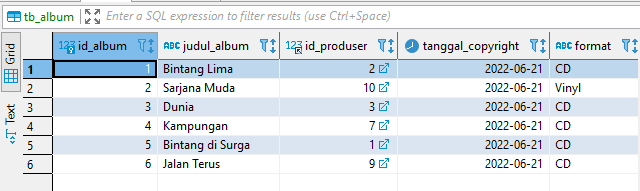
1. Lalu, tambahkan data, di masing-masing tabel. Saya menggunakan DBeaver untuk menambahkan data.
2. tb\_musisi



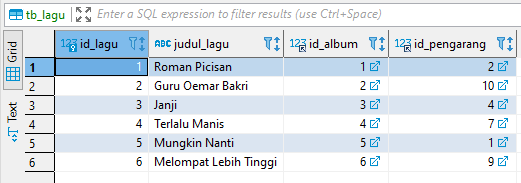
1. tb\_instrumen



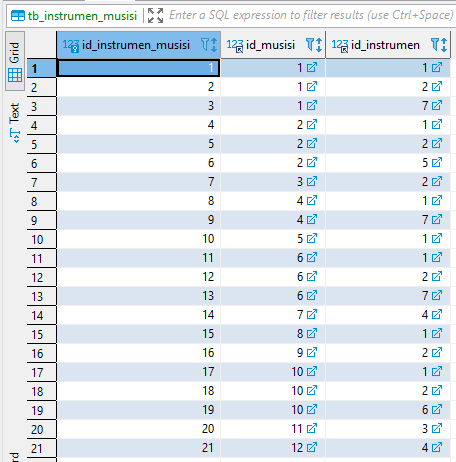
1. tb\_album



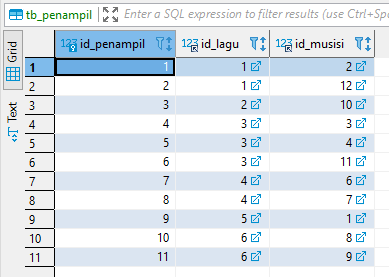
1. tb\_lagu



1. tb\_instrumen\_musisi

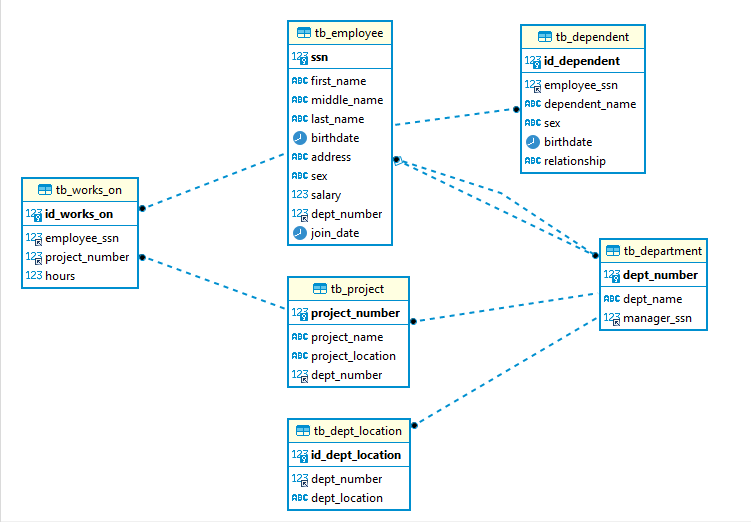


1. tb\_penampil



**Requirement 2**

1. Berikut ini adalah ERD dari database untuk pengerjaan requirement 2:



Terdapat 6 tabel yaitu

1. tb\_employee (saya menambahkan column join\_date karena digunakan di soal view nomor n)

* ssn int -> Primary Key
* first\_name VARCHAR
* middle\_name VARCHAR
* last\_name VARCHAR
* birthdate DATE
* join\_date DATE
* address VARCHAR
* sex VARCHAR
* salary int
* dept\_number int -> Foreign Key ke tabel tb­\_department

1. tb\_department

* dept\_number int -> Primary Key
* dept\_name VARCHAR
* manager\_ssn int -> Foreign Key ke tabel tb\_employee

1. tb\_dept\_location

* id\_dept\_location int -> Primary Key
* dept\_number int -> Foreign Key ke tabel tb\_department
* dept\_location VARCHAR

1. tb\_project

* project\_number int -> Primary Key
* project\_name VARCHAR
* project\_location VARCHAR
* dept\_number int -> Foreign Key ke tabel tb\_department

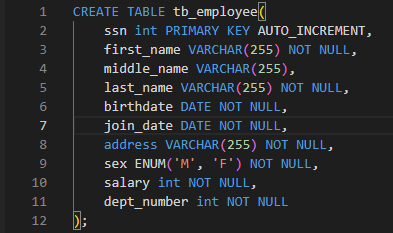
1. tb\_works\_on

* id\_works\_on int -> Primary Key
* employee\_ssn int -> Foreign Key ke tabel tb\_employee
* project\_number int -> Foreign Key ke tabel tb\_project

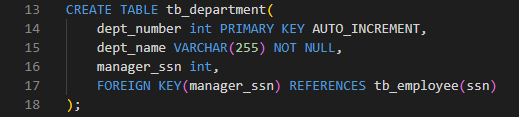
1. tb\_dependent

* id\_dependent int -> Primary Key
* employee\_ssn -> Foreign Key ke tabel tb\_employee
* dependent\_name VARCHAR
* sex VARCHAR
* birthdate DATE
* relationship VARCHAR

1. Buat tabel dengan CREATE TABLE
2. tb\_employee

****

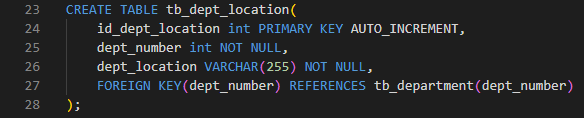
1. tb\_department



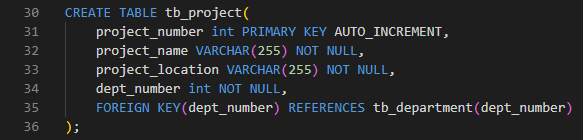
Lalu kita perlu menambahkan foreign key untuk column dept\_number di tb\_employee. Walaupun tb\_employee dibuat pertama kali, tapi kita baru bias menambahkan foreign key tersebut setelah membuat tb\_department.



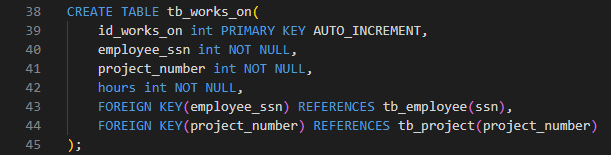
1. tb\_dept\_location



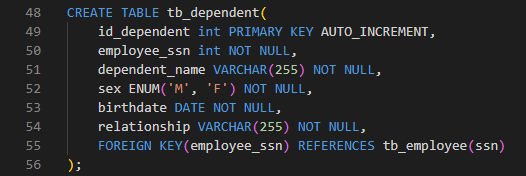
1. tb\_project



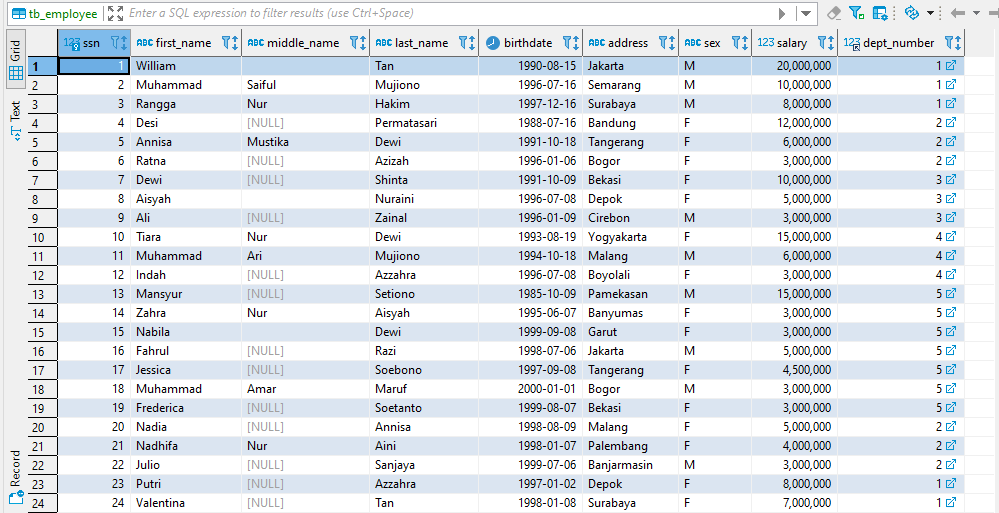
1. tb\_works\_on



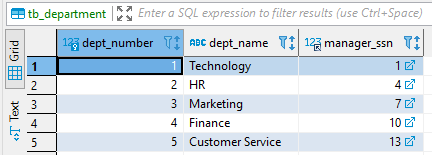
1. tb\_dependent



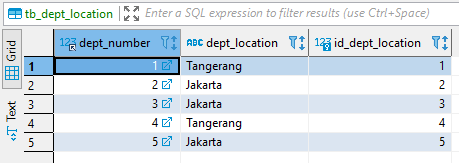
1. Tambahkan data ke masing-masing table melalui DBeaver
2. tb\_employee



1. tb\_department



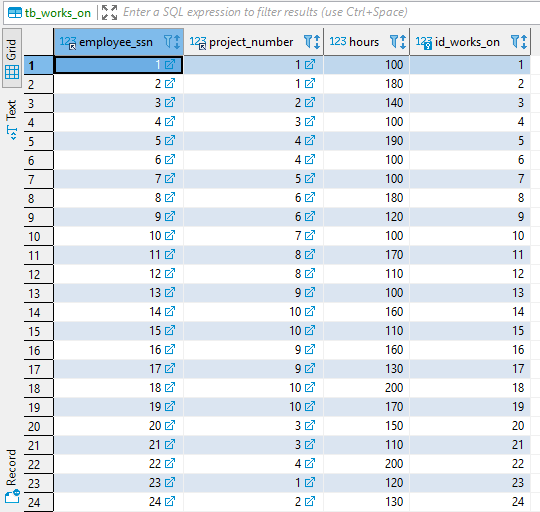
1. tb\_dept\_location



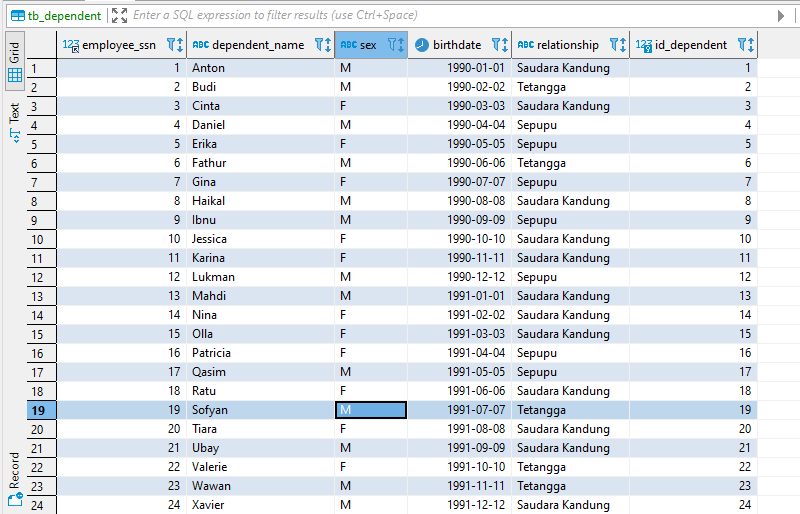
1. tb\_project



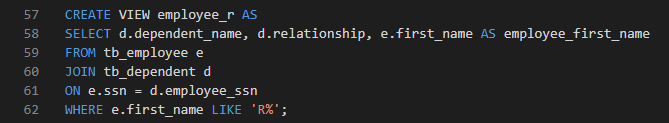
1. tb\_works\_on

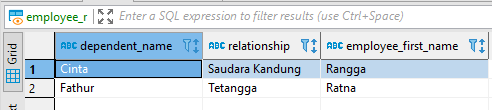


1. tb\_dependent

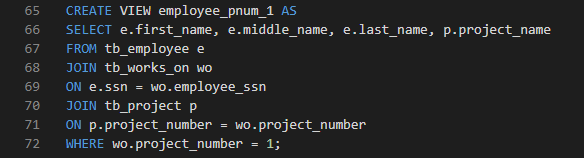


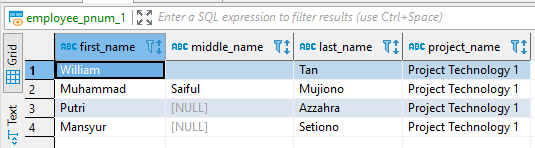
1. Buat view sesuai soal
2. View a (employee\_r)



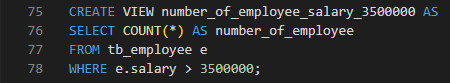


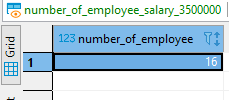
1. View b (employee\_pnum\_1)



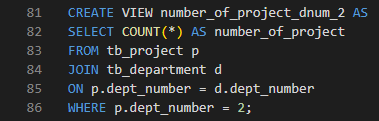


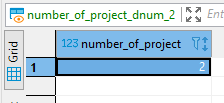
1. View c (number of employee\_salary\_3500000)



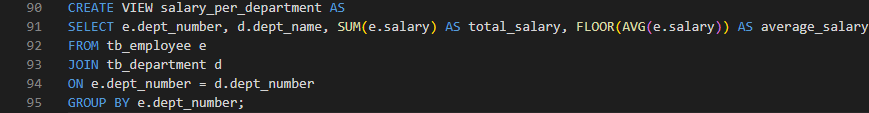


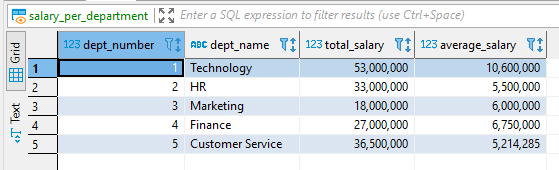
1. View d (number\_of\_project\_dnum\_2)



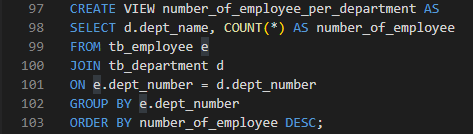


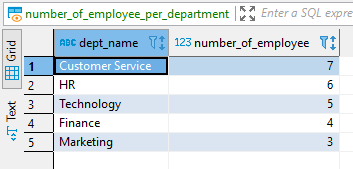
1. View e (salary\_per\_department)



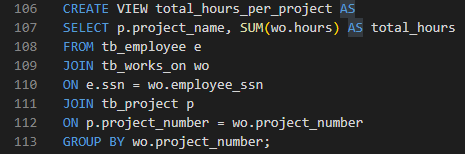


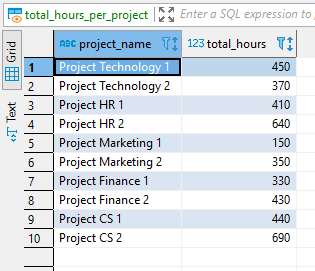
1. View f (number\_of\_employee\_per\_department)



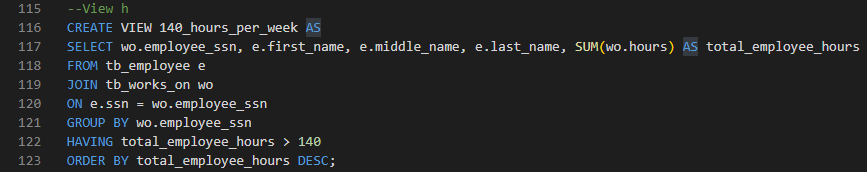


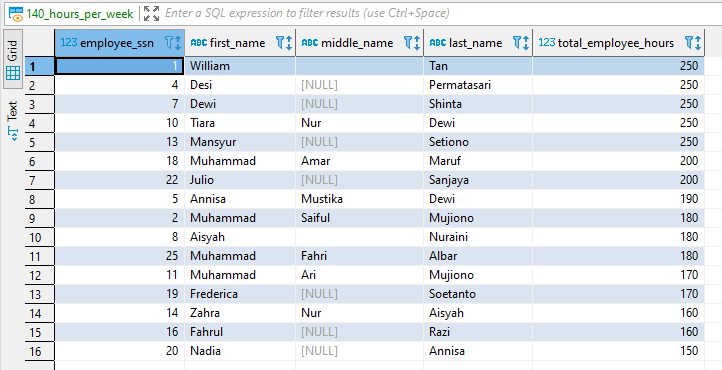
1. View g (total\_hours\_per\_project)



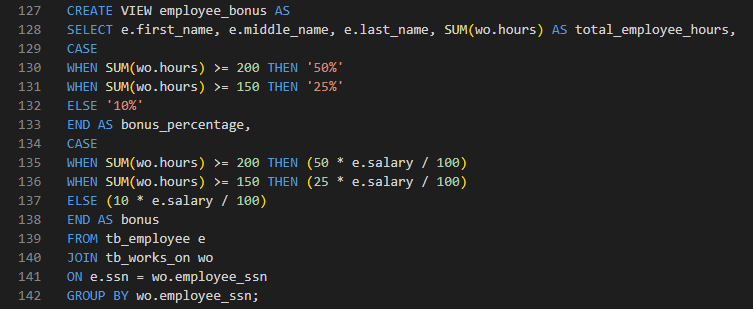


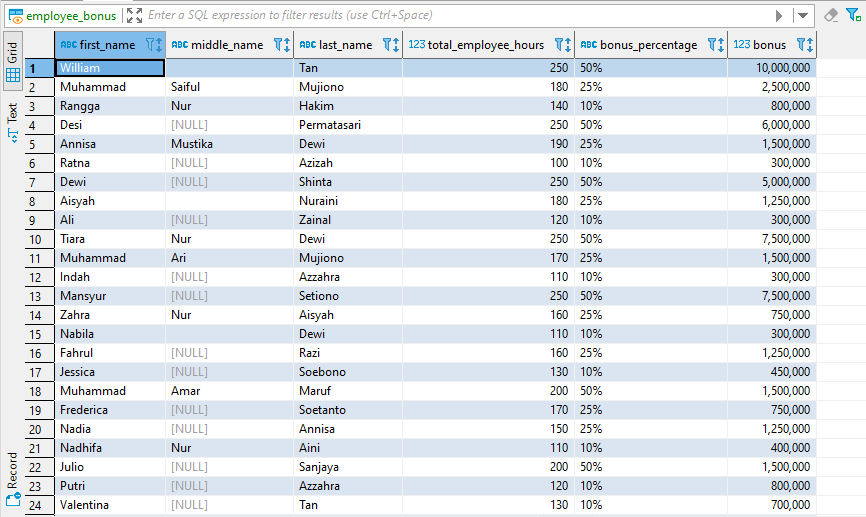
1. View h (140\_hours\_per\_week)



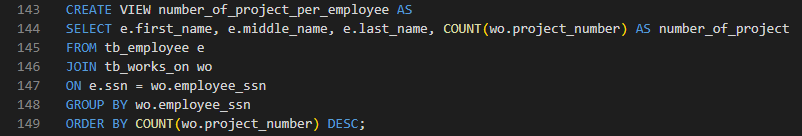


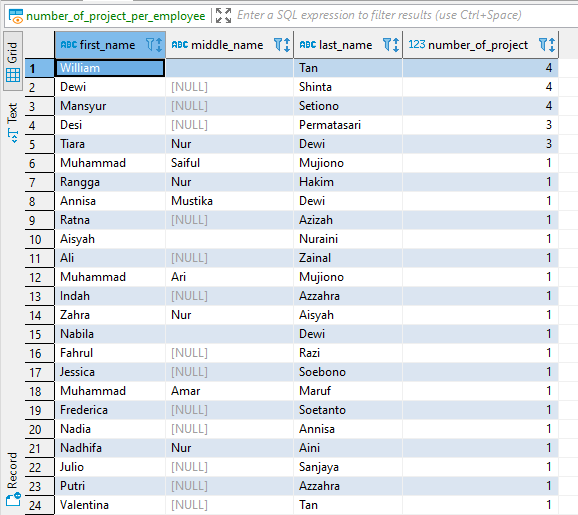
1. View I (employee\_bonus)



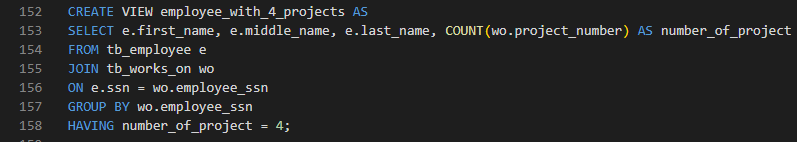


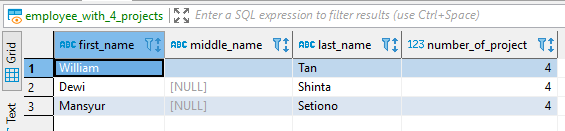
1. View j (number\_of\_project\_per\_employee)



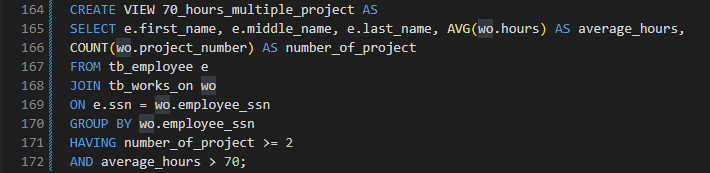


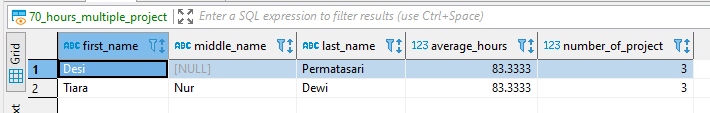
1. View k (employee\_with\_4\_projects)



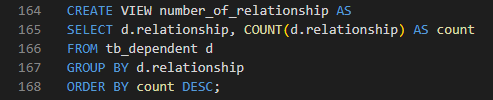


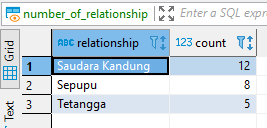
1. View l (70\_hours\_multiple\_project)



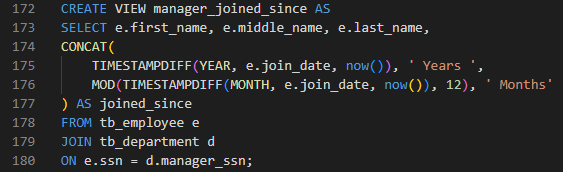


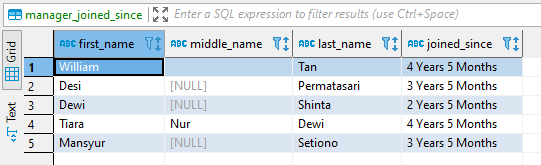
1. View m (number\_of\_relationship)





1. View n (manager\_joined\_since)





1. View o (project\_location\_with\_multiple\_department)

