**Database Design & Implementation**

[**https://www.diagrams.net/**](https://www.diagrams.net/)

[**https://www.jetbrains.com/datagrip/**](https://www.jetbrains.com/datagrip/)

[**https://www.jetbrains.com/toolbox-app/download/download-thanks.html?platform=windows**](https://www.jetbrains.com/toolbox-app/download/download-thanks.html?platform=windows)

CREATE TABLE user\_profile(

id BIGSERIAL NOT NULL PRIMARY KEY,

first\_name TEXT(200) NOT NULL,

last\_name TEXT(200) NOT NULL,

email TEXT(200) NOT NULL UNIQUE,

gender TEXT(200) NOT NULL CHECK(gender IN {'MALE', 'FEMALE'}),

created\_at TIMESTAMP WITHOUT TIME ZONE NOT NULL

);

-- ONE - to -One relationship between user\_profile and youtube account

-- This relationship can be created using Primary Key-Unique foreign key constraints.

CREATE TABLE IF NOT EXISTS youtube\_account(

user\_profile\_id BIGINT PRIMARY KEY REFERENCES user\_profile(id),

created\_at TIMESTAMP WITHOUT TIME ZONE NOT NULL

);

-- ONE to MANY relationship between youtube\_account and youtube channel

CREATE TABLE IF NOT EXISTS youtube\_channel(

id BIGSERIAL PRIMARY KEY,

youtube\_account\_id BIGINT NOT NULL REFERENCES youtube\_account(id),

channel\_name TEXT NOT NULL UNIQUE,

created\_at TIMESTAMP WITHOUT TIME ZONE NOT NULL

)

CREATE TABLE channel\_subscriber(

youtube\_account\_id BIGINT REFERENCES youtube\_account(id),

youtube\_channel\_id BIGINT REFERENCES youtube\_channel(id),

created\_at TIMESTAMP WITHOUT TIME ZONE NOT NULL,

PRIMARY KEY (youtube\_account\_id, youtube\_channel\_id)

);