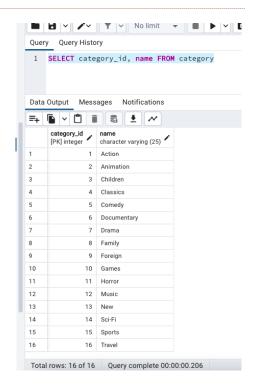
# 3.3: SQL FOR DATA ANALYSTS

## STEP 1

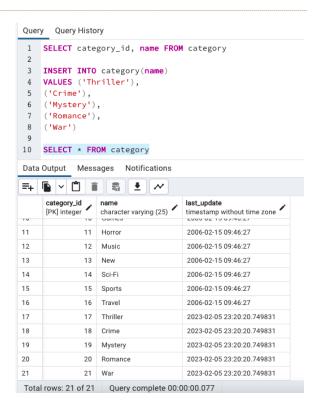
Your first task is to find out what film genres already exist in the category table:

• Write a SELECT command to find out what film genres exist in the category table.



# STEP 2

Write an INSERT statement to add the following genres to the category table: Thriller, Crime, Mystery, Romance, and War.



```
CREATE TABLE category
(
   category_id integer NOT NULL DEFAULT nextval('category_c ategory_id_seq'::regclass),
   name text COLLATE pg_catalog."default" NOT NULL,
   last_update timestamp with time zone NOT NULL DEFAULT no
w(),
   CONSTRAINT category_pkey PRIMARY KEY (category_id)
);
```

The CREATE statement shows the constraints on the category table. Write a short paragraph explaining the various constraints that have been applied to the columns. What do these constraints do exactly? Why are they important?

- NOT NULL A constraint to make sure that there is no missing value in every column
- PRIMARY KEY Category\_id is the primary key column. The primary key column can't contain any null or duplicate values

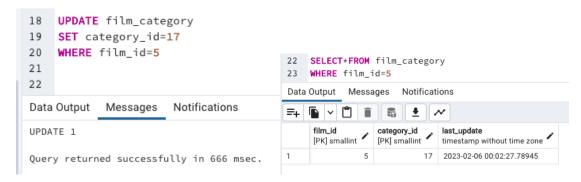
### STEP 3

The genre for the movie African Egg needs to be updated to thriller.

• Write the SELECT statement to find the film id for the movie African Egg.

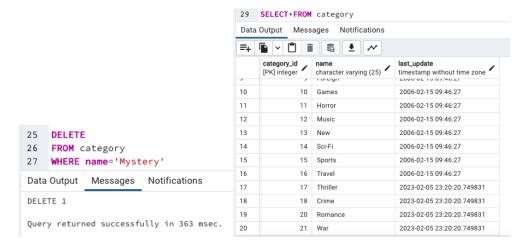


• Once you have the film\_ID and category\_ID, write an UPDATE command to change the category in the film\_category table (not the category table).



#### STEP 4

Since there aren't many movies in the mystery category, you and your manager decide to remove it from the category table. Write a DELETE command to do so.



#### STEP 5

Considering the small size of the *category* and *film\_category* tables, Excel still seems to be easier to manipulate, edit and delete data.

SQL would be more beneficial for datasets with more rows where more scrolling would be required in Excel.

## BONUS TASK

The SQL query contains some typos. See if you can fix it based on what you've learned so far about SQL and data types; then try running it in pgAdmin 4.

```
CREATE TBL 3EMPLOYEES
{
employee_id VARINT(30) NOT EMPTY
name VARCHAR(50),
contact_number VARCHAR(30) ,
designation_id INT,
last_update TIMESTAMP NOT NULL DEF now()
CONSTRAIN employee_pkey PRIMARY KEY (employee_id)
}
```

```
CREATE TABLE employees
31
32
33
   employee_ID SERIAL PRIMARY KEY,
34
   name VARCHAR(50),
   contact_number VARCHAR(30),
36
   designation_id INT,
37
    last_update TIMESTAMP NOT NULL DEFAULT NOW()
38 )
Data Output Messages
                     Notifications
CREATE TABLE
Query returned successfully in 79 msec.
```