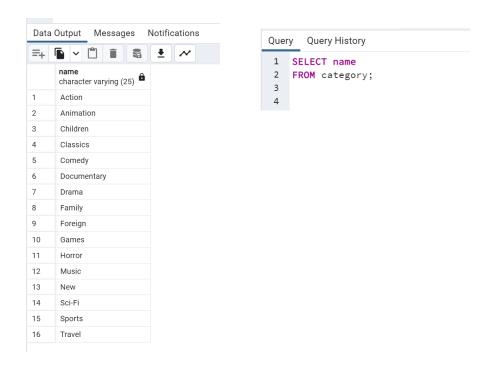
3.3 SQL for Data Analysts

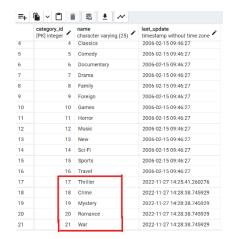
Step 1

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



Step 2

You're ready to add some new genres! Write an INSERT statement to add the following genres to the category table: Thriller, Crime, Mystery, Romance



The CREATE statement below 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?

```
CREATE TABLE category
(
   category_id integer NOT NULL DEFAULT nextval('category_category_id_seq'::regclass),
   name text COLLATE pg_catalog."default" NOT NULL,
   last_update timestamp with time zone NOT NULL DEFAULT now(),
   CONSTRAINT category_pkey PRIMARY KEY (category_id)
);
```

category_id

NOT NULL DEFAULT: these constraints state that this variable cannot have null values and the results can be generated by default.

PRIMARY KEY: this constraint stablishes that the variable is the primary key (unique value that identifies each record of the table).

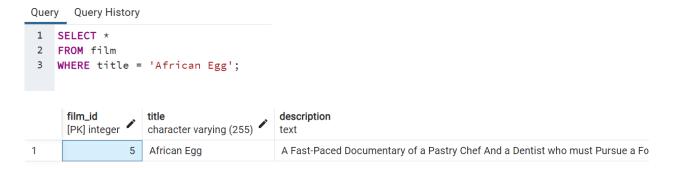
last_update

NOT NULL DEFAULT now (): again, these constraints indicate that the values cannot be null and the time has to be right in moment when the query is executed.

Step 3

The genre for the movie *African Egg* needs to be updated to thriller. Work through the steps below to make this change:

Film ID



Category ID

	category_id [PK] integer	name character varying (25)	last_ur timest
14	14	Sci-Fi	2006-0
15	15	Sports	2006-0
16	16	Travel	2006-0
17	17	Thriller	2022-

Query Query History

```
1  UPDATE film_category
2  SET category_id = 17
3  WHERE film_id = 5;
4
5  SELECT *
6  FROM film_category
7  WHERE film_id = 5;
8
```

	film_id [PK] smallint	category_id [PK] smallint	last_update timestamp without time zone
1	5	17	2022-11-27 15:06:04.085761

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 and copy-paste it into your answers document.

1. Identify mystery id

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone
1	19	Mystery	2022-11-27 14:28:38.745929

Query Query History

```
DELETE FROM category
WHERE category_id =19;
```

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone	
10	10	rravei	2000-02-15 09.46.27	
17	17	Thriller	2022-11-27 14:25:41.260276	
18	18	Crime	2022-11-27 14:28:38.745929	
19	20	Romance	2022-11-27 14:28:38.745929	
20	21	War	2022-11-27 14:28:38.745929	

Step 5:

Based on what you've learned so far, think about what it would be like to complete steps 1 to 4 with Excel instead of SQL. Are there any pros and cons to using SQL? Write a paragraph explaining your answer.

Step 1.

To identify the genres, I would have opened the data table with the genre details.

Step 2. I would have had to add manually every genre, checking which is the following id number, add each genre and use the function now() for update the time.

Step 3. To identify the film_id in the fil table I would have opened the film table, filter by name and write down the film_id.

Later, I would have opened the film_category table and filter the film_id and finally write down manually new category id for the film.

Step 4. Go to the category table, filter the name by Mystery and delete the row.

PROS

It is easier to interact with the tables, you don't have to be looking the values directly in the tables, just with code you can easily read, add or delete information.

Also, there are less chances to make mistakes such as data type, write in the wrong column and also you can see what you have done in the query editor.

It is faster to get to the result, sometimes excel very easily get stuck and with SQL you can get the result very fast.

CONST

It is more complex to do work wit code than just work directly in a spreadsheet. You need to understand how the functions work and structure your ideas to get to the expected result.