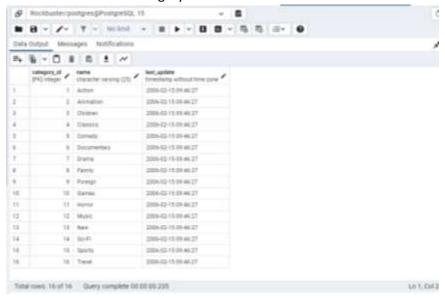
$1.\mathsf{Open}$ pgAdmin 4, click the Rockbuster database, and open the Query Tool.

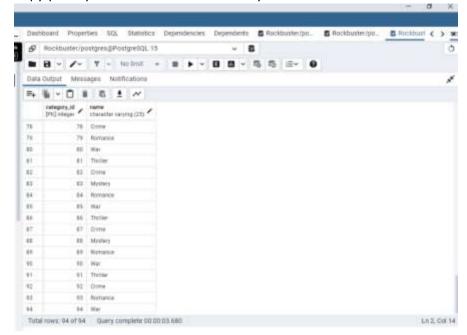
Write a SELECT command to find out what film genres exist in the category table.

• SELECT * FROM Film Category



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

Copy-paste your INSERT commands into your answers document.



• 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'::reg class),
    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)
    );
```

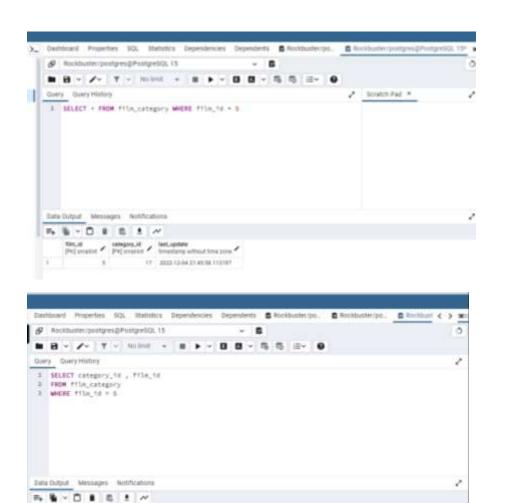
- NOT NULL: no empty content is allowed within that column (category_id, name, last_update), an error message will appear if an empty record is attempted to be inserted DEFAULT: if a record is inserted with a missing value, it will be replaced by the given default value (category_id, name, last_update)
- PRIMARY KEY: the category_id will be set as the primary key, making it unique Constraints specify what type of data a table or column can accept, and they're typically set when a table is created. Done properly, constraints make querying the database quicker and easier. They may even act as a data quality check in certain situations.

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

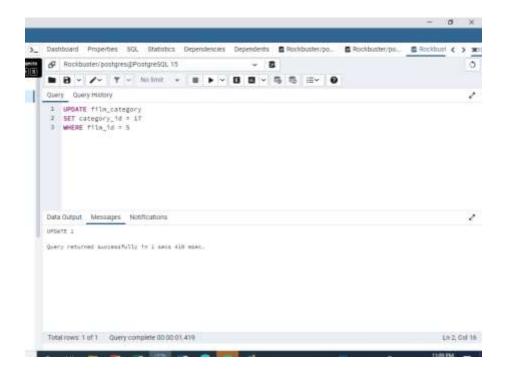
Write the SELECT statement to find the film_id for the movie African Egg



 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). Copy-paste this command into your answers document.

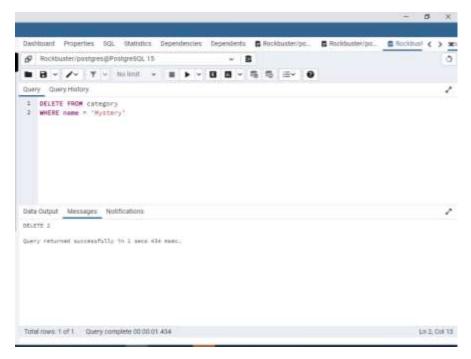


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• Step 4:

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.



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: I think SQL and Excel are quite similar in that case. In Excel I would have to create a Pivot Table to get this information and in SQL I have to write the SELECT command. To me, the effort is quite the same.

Step 2: SQL makes it easier to insert new categories because I can create them without filling in the other tables. In excel, I would have a particularly empty row (if all the tables were merged to one spreadsheet)

Step 3: Changing the category for a specific film is easier using SQL. Here, I only have one step (the UPDATE command), while in Excel I would need to filter for the film name and then, replace the category.