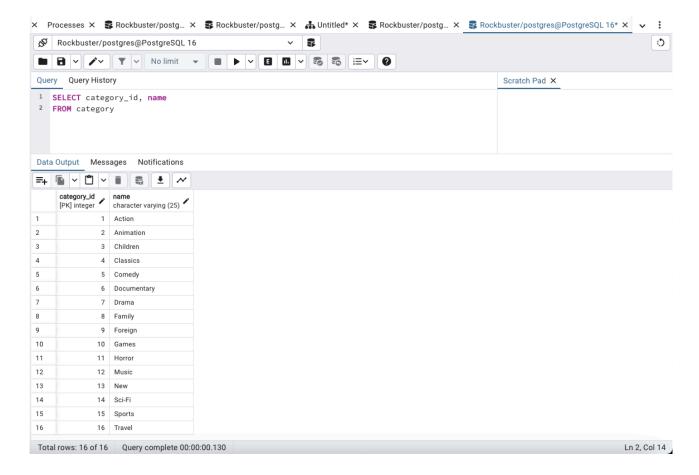
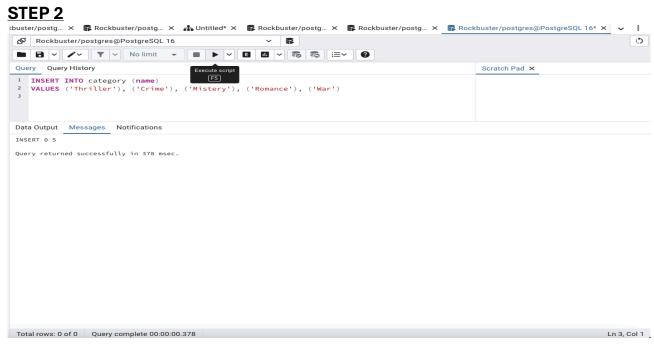
# **TASK 3.3**

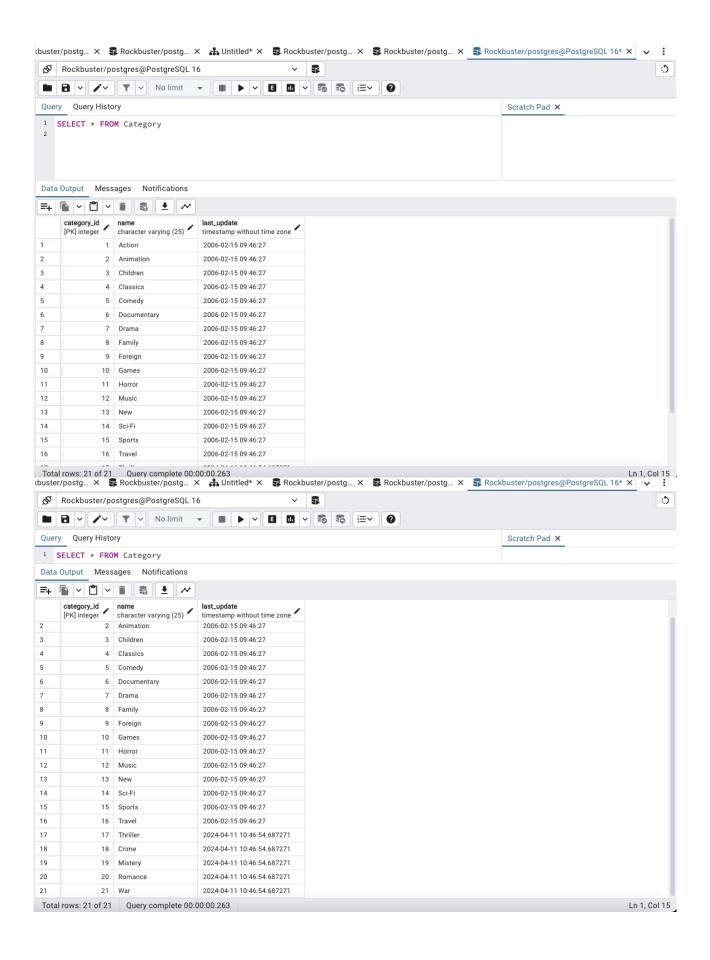
# SQL for Data Analysts

## Step 1



## STEP 2





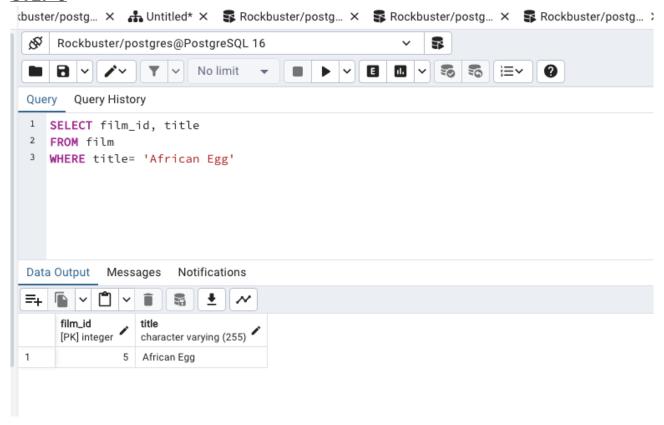
```
CREATE TABLE category
(
   category_id integer NOT NULL DEFAULT nextval('category_category_id_seq'::regcl
ass),
   name text COLLATE pg_catalog."default" NOT NULL,
   last_update timestamp with time zone NOT NULL DEFAULT now(),
   CONSTRAINT category_pkey PRIMARY KEY (category_id)
);
```

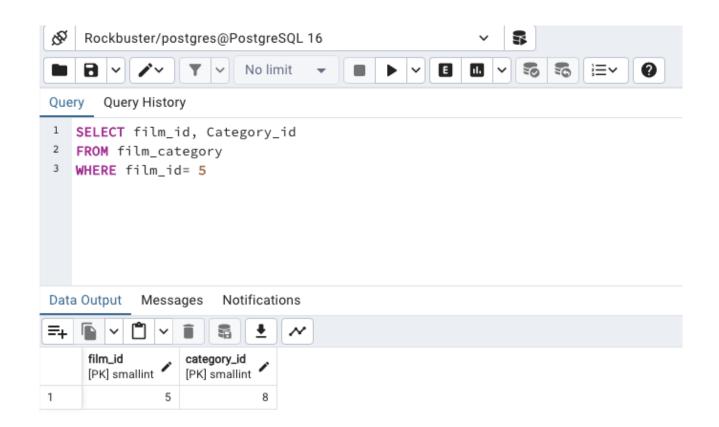
in the category table, we're setting up some rules for how the data should look and behave. First off, we've got the category\_id, which is like a special ID number for each category. We're saying it can't be left blank (NOT NULL) and it has to be unique for each category (PRIMARY KEY). If we don't give it a number when we add a new category, it'll automatically get the next available number.

Then there's the name column, which holds the name of each category. We're saying it can't be left blank either (NOT NULL). We want to make sure each category has a name. Lastly, we've got the last\_update column, which keeps track of when each category was last updated. This one also can't be left blank (NOT NULL). And if we don't give it a specific time, it'll just use the current time as the default.

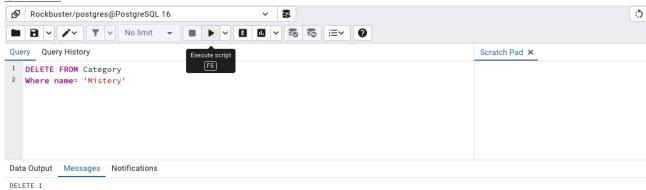
So, basically, these rules help keep our data organized and make sure it's accurate. They stop us from accidentally leaving out important information or adding duplicate categories. It's like having a checklist to make sure everything is in order.

#### STEP 3

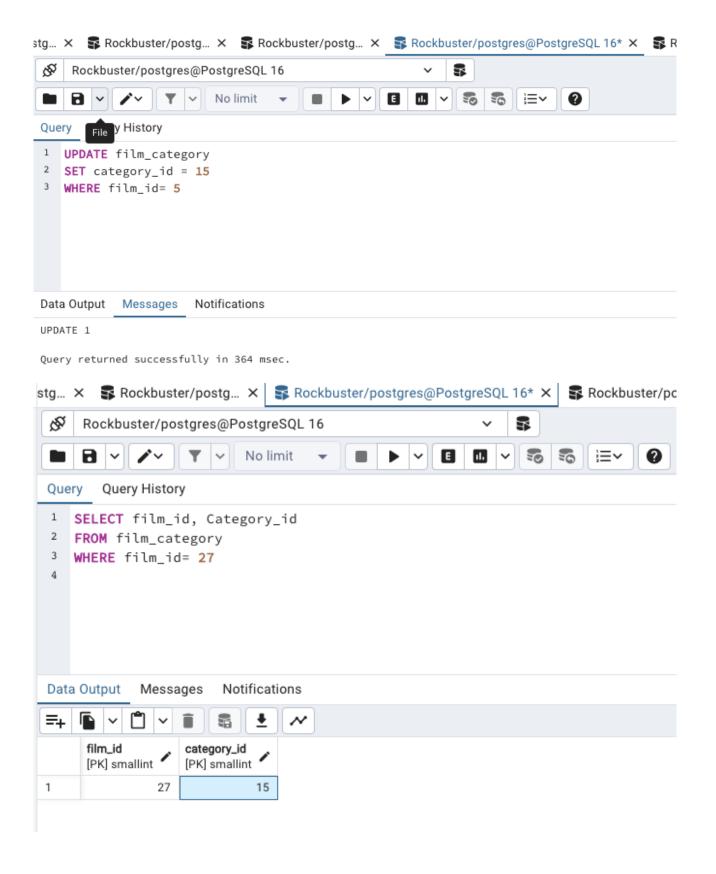


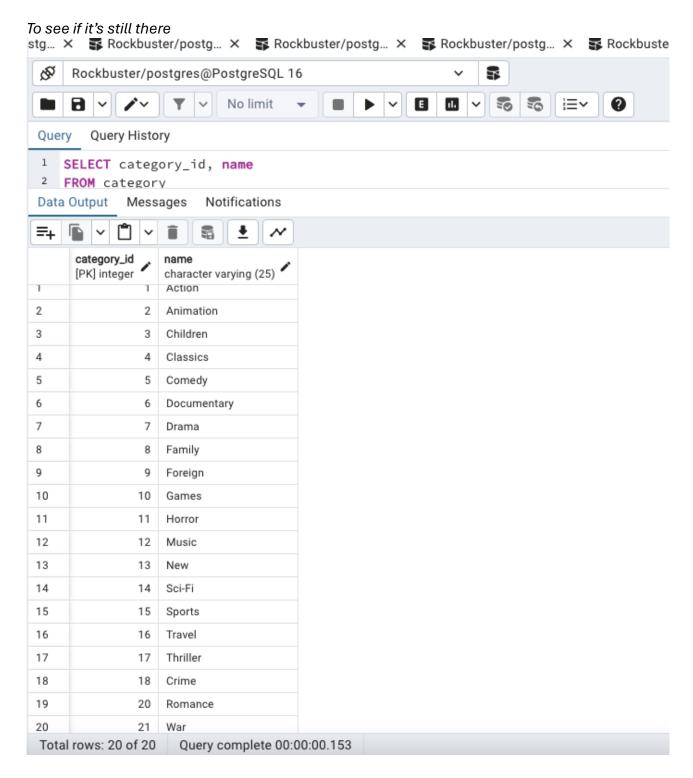


## STEP 4



Query returned successfully in 240 msec.





### STEP 5

ANSWER: When it comes to using Excel or SQL for steps 1 to 4, there's a clear difference in how they work. Excel is easier to understand visually. You can easily add new categories like Mystery or Romance just by adding rows and filling them in. But with SQL, you need to know where the data is and how to use commands to work with it. Plus, SQL helps keep your data safe because it won't let you make changes without permission. On the other hand, in Excel, you might accidentally delete something important and run into problems.