

Jeremy Obach
CareerFoundry DA Immersion
Task 3.3

1. Existing film genres in category table

- | | |
|----|---------------|
| 1 | "Action" |
| 2 | "Animation" |
| 3 | "Children" |
| 4 | "Classics" |
| 5 | "Comedy" |
| 6 | "Documentary" |
| 7 | "Drama" |
| 8 | "Family" |
| 9 | "Foreign" |
| 10 | "Games" |
| 11 | "Horror" |
| 12 | "Music" |
| 13 | "New" |
| 14 | "Sci-Fi" |
| 15 | "Sports" |
| 16 | "Travel" |

2a. Insert: 'Thriller', 'Crime', 'Mystery', 'Romance', 'War' into category table.

After insertions: 17 Thriller, 18 Crime, 19 Mystery, 20 Romance, 21 War.

2b. This CREATE statement includes various constraints, including the NOT NULL constraint, data type constraints like integer, text, and timestamp with time zone, and PRIMARY KEY constraints. NOT NULL is a constraint on category_id, name, and last_update columns – it ensures that the column can't have any missing or empty values. Data type constraints dictate what kind of data is acceptable for that column, be it integers, small ints (a data saving measure), DATE/Time, or text, with various characters (25,15, etc.) Primary key constraints assign the category_id column as the Primary key for the category table. Therefore, each entry in the category table must have a unique category_id value.

3a. 'African Egg' film_id is 5. Category_id is 8, corresponding to 'Family'.

3b.

```
UPDATE film_category  
SET category_id = 9  
WHERE film_id = 5;
```

4.

```
DELETE FROM category  
WHERE name = 'Mystery';
```

5a. To do this with Excel, you would most likely need to either reduce the simplicity and use one large table that accounted for all the information about a given movie or do a complex web of VLOOKUPS to link tables with different focuses. In Excel, you wouldn't add 5 genres to the table, but could instead write those genres into new or existing movie entries "genre" column. Then you would Filter for X genre and see what movies came up. You would also potentially do a good bit of wading thru the wrong type of data in the data cleaning stage, as you can't constrain data types in Excel (or maybe you can but it's tricky, some people are wizards with Excel). Updating "African Egg" to a different genre, like Family, would be easier with Excel, as you would just scroll to its entry and change the genre. It's easier but less sophisticated; I'm looking forward to the instances where the demanded action would be completely unfeasible thru Excel. Finally, deleting the Mystery genre... For this one, if there were any movies on an excel sheet that contained Mystery, we would have to find them and change their genre to something else, which would in effect, remove the Mystery genre from our spreadsheet. Less sophisticated, and not as scalable across a large number of users, but it's easy to imagine.

BONUS TASK:

QUERY:

```
CREATE TABLE employees
(
  employee_id VARCHAR(30) NOT NULL,
  name VARCHAR(50),
  contact_number VARCHAR(30),
  designation_id INT,
  last_update TIMESTAMP NOT NULL DEFAULT now(),
  CONSTRAINT employee_pkey PRIMARY KEY
  (employee_id))
```