Task 3.3

Step 1

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone
1	1	Action	2006-02-15 09:46:27
2	2	Animation	2006-02-15 09:46:27
3	3	Children	2006-02-15 09:46:27
4	4	Classics	2006-02-15 09:46:27
5	5	Comedy	2006-02-15 09:46:27
6	6	Documentary	2006-02-15 09:46:27
7	7	Drama	2006-02-15 09:46:27
8	8	Family	2006-02-15 09:46:27
9	9	Foreign	2006-02-15 09:46:27
10	10	Games	2006-02-15 09:46:27
11	11	Horror	2006-02-15 09:46:27
12	12	Music	2006-02-15 09:46:27
13	13	New	2006-02-15 09:46:27
14	14	Sci-Fi	2006-02-15 09:46:27
15	15	Sports	2006-02-15 09:46:27
16	16	Travel	2006-02-15 09:46:27

Step 2

INSERT INTO category(name)

VALUES('Thriller'), ('Crime'), (Mystery), ('Romance'), ('War')

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone
6	6	Documentary	2006-02-15 09:46:27
7	7	Drama	2006-02-15 09:46:27
8	8	Family	2006-02-15 09:46:27
9	9	Foreign	2006-02-15 09:46:27
10	10	Games	2006-02-15 09:46:27
11	11	Horror	2006-02-15 09:46:27
12	12	Music	2006-02-15 09:46:27
13	13	New	2006-02-15 09:46:27
14	14	Sci-Fi	2006-02-15 09:46:27
15	15	Sports	2006-02-15 09:46:27
16	16	Travel	2006-02-15 09:46:27
17	17	Thriller	2022-08-13 13:25:11.557404
18	18	Crime	2022-08-13 13:25:11.557404
19	19	Mystery	2022-08-13 13:25:11.557404
20	20	Romance	2022-08-13 13:25:11.557404
21	21	War	2022-08-13 13:25:11.557404

```
  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)
);
```

NOT NULL: is used to make sure no empty value is enter in this column and is important to use when the information is necessary for the entry

- Category_id
- Name
- Last update

DEFAULT: is used to make sure a set default value takes place when there is an empty value and is important to have a better format in the database

- Category_id
- Last_update

PRIMARY KEY: is used to assign a primary key which make that this column can not hold empty or repeated values

Step 3

Film Id

SELECT *

FROM film

WHERE title = 'African Egg'

film_id [PK] integer	title character varying (255)	description text
1	5	African Egg	A Fast-Pac...

Category ID

SELECT *

FROM film_category

WHERE film_id = 5

	film_id [PK] smallint	category_id [PK] smallint	last_update timestamp without time zone
1	5	8	2006-02-15 10:07:09

Update

UPDATE film_category

SET category_id = 17

WHERE film_id = 5

Check

SELECT *

FROM film_category

WHERE film_id = 5

	film_id [PK] smallint	category_id [PK] smallint	last_update timestamp without time zone
1	5	17	2022-08-13 13:58:17.764774

Step 4

DELETE FROM category

WHERE name = 'Mystery'

	category_id [PK] integer	name character varying (25)	last_update timestamp without time zone
1	1	Action	2006-02-15 09:46:27
2	2	Animation	2006-02-15 09:46:27
3	3	Children	2006-02-15 09:46:27
4	4	Classics	2006-02-15 09:46:27
5	5	Comedy	2006-02-15 09:46:27
6	6	Documentary	2006-02-15 09:46:27
7	7	Drama	2006-02-15 09:46:27
8	8	Family	2006-02-15 09:46:27
9	9	Foreign	2006-02-15 09:46:27
10	10	Games	2006-02-15 09:46:27
11	11	Horror	2006-02-15 09:46:27
12	12	Music	2006-02-15 09:46:27
13	13	New	2006-02-15 09:46:27
14	14	Sci-Fi	2006-02-15 09:46:27
15	15	Sports	2006-02-15 09:46:27
16	16	Travel	2006-02-15 09:46:27
17	17	Thriller	2022-08-13 13:25:11.557404
18	18	Crime	2022-08-13 13:25:11.557404
19	20	Romance	2022-08-13 13:25:11.557404
20	21	War	2022-08-13 13:25:11.557404

Step 5

All this changes would've been possible to do with excel, it probably would've take some more time to look for the specific cells that we had to change or to create in the tables, for this reason, SQL makes this process faster and easier when you are proficient and fluent at writing queries, when it comes to simplicity in my opinion Excel is easier to use but in an actual work environment for the amount of data SQL is the best option.

Bonus

```
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)

)
```