SQLite Homework

Guillaume VAN PUTTEN

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To work with SQL lite, I choose to use python in Visual Studio Code with SQLite extensions for database visualization, and Mockaroo for data generation.

1 Creation

For the generation of the database, I used Mockaroo:

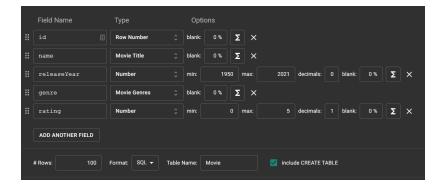


Figure 1: Mockaroo Generation

It gave me a sql file from which I can create a SQLite database with this command

```
(sqlenv) G:\RTU\Computer\SQLite>sqlite3 CTmovies.db -init Movie.sql
-- Loading resources from Movie.sql
SQLite version 3.36.0 2021-06-18 18:36:39
Enter ".help" for usage hints.
```

Figure 2: Database Creation

2 Display

I'm using Visual Studio Code whith an extension that allow me to visualize data The SQL command is :

SELECT * FROM Movie;

id	name	releaseYear	genre	rating
1	All Is Forgiven (Tout est pardonné)	1964	Drama	2.4
2	Hardcore	1984	Crime Drama	2.6
3	After Fall, Winter	2012	Drama	3.9
4	Camille Claudel	1971	Drama	4.6
5	Dans la peau d'une grande	2014	Comedy	1
6	Riley Rewind	1996	Drama Sci-Fi	4
7	Lethal Weapon 4	1969	Action Comedy Crime Thriller	4.8
8	Films to Keep You Awake: The Baby's Room (Películas para no dormir: La habitación del niño)	1995	Horror	1.3
9	Anatomy of a Love Seen	1988	Drama Romance	4.2
10	Hamlet	1988	Drama	3.4
11	Dumb and Dumber To	2000	Comedy	1.9
12	Generale Della Rovere, Il	1959	Drama	4.4
13	Article 99	1975	Comedy Drama	3.3
14	On a Clear Day	1962	Drama	1.5
15	Bombay Talkie	1964	Drama Musical Romance	0.2
16	Hellraiser	2001	Horror	4.3
17	Man Who Copied, The (Homem Que Copiava, 0)	1951	Comedy Crime Drama Romance	3.8
18	I Was a Teenage Zombie	2016	Comedy Horror	0.4
19	Private Property (Nue propriété)	1988	Drama	4.5
20	Notre jour viendra	2003	Drama	3.5

Figure 3: Data Display

To display only one row, I choosed the first one with this command: SELECT * FROM Movie WHERE id = 1;

Giving me this result:

```
(sqlenv) G:\RTU\Computer\SQLite>python sqlite.py
[(1, 'All Is Forgiven (Tout est pardonné)', 1964, 'Drama', 2.4)]
```

Figure 4: 1st row display

3 Update

I updated the year of the first movie with this command: UPDATE Movie SET releaseYear=2002 where id=1;

```
(sqlenv) G:\RTU\Computer\SQLite>python sqlite.py
[(1, 'All Is Forgiven (Tout est pardonné)', 2002, 'Drama', 2.4)]
```

Figure 5: 1st row update

Then I incremented the year of the 20 first movies by 1: UPDATE Movie SET releaseYear=releaseYear+1 where id<=20;

id	name	releaseYear	genre	rating
1	All Is Forgiven (Tout est pardonné)	2003	Drama	2.4
2	Hardcore	1985	Crime Drama	2.6
3	After Fall, Winter	2013	Drama	3.9
4	Camille Claudel	1972	Drama	4.6
5	Dans la peau d'une grande	2015	Comedy	1
6	Riley Rewind	1997	Drama Sci-Fi	4
7	Lethal Weapon 4	1970	Action Comedy Crime Thriller	4.8
8	Films to Keep You Awake: The Baby's Room (Películas para no dormir: La habitación del niño)	1996	Horror	1.3
9	Anatomy of a Love Seen	1989	Drama Romance	4.2
10	Hamlet	1989	Drama	3.4
11	Dumb and Dumber To	2001	Comedy	1.9
12	Generale Della Rovere, Il	1960	Drama	4.4
13	Article 99	1976	Comedy Drama	3.3
14	On a Clear Day	1963	Drama	1.5
15	Bombay Talkie	1965	Drama Musical Romance	0.2
16	Hellraiser	2002	Horror	4.3
17	Man Who Copied, The (Homem Que Copiava, 0)	1952	Comedy Crime Drama Romance	3.8
18	I Was a Teenage Zombie	2017	Comedy Horror	0.4
19	Private Property (Nue propriété)	1989	Drama	4.5
20	Notre jour viendra	2004	Drama	3.5

Figure 6: Year increment on the 20 first rows

4 Delete

Last, I'll delete the first 10 rows: DELETE FROM Movie WHERE id<=10;

id	name	releaseYear	genre	rating
11	Dumb and Dumber To	2001	Comedy	1.9
12	Generale Della Rovere, Il	1960	Drama	4.4
13	Article 99	1976	Comedy Drama	3.3
14	On a Clear Day	1963	Drama	1.5
15	Bombay Talkie	1965	Drama Musical Romance	0.2
16	Hellraiser	2002	Horror	4.3
17	Man Who Copied, The (Homem Que Copiava, 0)	1952	Comedy Crime Drama Romance	3.8
18	I Was a Teenage Zombie	2017	Comedy Horror	0.4
19	Private Property (Nue propriété)	1989	Drama	4.5
20	Notre jour viendra	2004	Drama	3.5
21	Brokeback Mountain	1984	Drama Romance	3.5
22	Change of Plans (Le code a changé)	1971	Comedy Drama	0.4
23	New Waterford Girl	2002	Comedy	4
24	Las Vegas Story, The	2019	Crime Drama Film-Noir	3.8
25	Becoming Chaz	1962	Documentary	0.1
26	Night Across the Street (La noche de enfrente)	1953	Drama	3.8
27	Loch Ness	1951	Drama	0.7
28	Beau Pere (a.k.a. Stepfather) (Beau-père)	1996	Drama	0.3
29	Milk of Sorrow, The (Teta asustada, La)	1956	Drama	0.2
30	Michael	2009	Comedy Drama Fantasy Romance	2.7

Figure 7: Display after the delete of the first 10 rows

5 Conclusion

SQLite allows to use sql operation on lightweight database easily with python.