Database Technologies for Business Analytics BEM2040

Practice Week 2

- 1. Download the file Week2.zip. We will be using:
 - films_subset.db
 - practice_w2_start.ipynb
- 2. Uncompress the files in your downloads folder.
- 3. Start SQLite and follow the instruction in class. We will spend the first part of the session interacting with the command line of the database system. We will be using the following instructions, or similar:

```
SELECT * FROM film;

SELECT * FROM film where film_year_start=1940;

SELECT * FROM actor;

NNSERT into actor(actor_id,actor_name,actor_year_born,actor_year_dead)

NALUES ('ai", "Timothes Chalemen', 1994, null);

NNSERT into actor(actor_id,actor_name,actor_year_born,actor_year_dead)

NALUES ('az", "Rabecca Ferguson", 1983, null);

SELECT * FROM actor;

SELECT * FROM actor;
```

- 4. Start jupyter and browse to the download folder.
- 5. Open the just downloaded jupyter notebook (practice_w2_start.ipynb).
- 6. Add instructions to the notebook, copying and pasting from the code below, according to guidance in the practice. Note that you already have the initial instructions.

```
#Importing the library to connect to the database.

import sqlite3

#Creating a connection to the database.

conn = sqlite3.connect('films_subset.db')

#A cursor holds resources for a query.

#Several cursors can be created for a connection.

cur = conn.cursor()

### Getting all records in the table called "film"
```

```
12 rows = cur.fetchall()
18 query = "SELECT * FROM film where film_year_start=1940"
19 cur.execute(query)
20 rows = cur.fetchall()
27 cur.execute(query)
28 rows = cur.fetchall()
46 cur.execute(query, ("a1", "Timothée Chalamet", 1994, None))
50 conn.commit()
53 query = "SELECT * FROM actor"
54 cur.execute(query)
55 rows = cur.fetchall()
61 query = "update actor set actor_year_born = ? where actor_id = ?"
63 conn.commit()
67 cur.execute(query)
68 rows = cur.fetchall()
```

```
69 for row in rows:
70     print(row)
71
72
73 #Counting the number of records in table actor.
74 query = "SELECT count(*) FROM actor"
75 cur.execute(query)
76 rows = cur.fetchall()
77 print(rows)
78 print(rows[0][0])
79
80 #Closing the connection
81 print("Closing connection")
82 conn.close()
```