The Extra Menu Options in the Final Project

Menu 7: Create/Run Procedure

The menu allows the user to create and run a stored SQL procedure called 'GetFilmsByYear', which helps explore furthermore 'film' table in the database. The procedure takes two inputs from the user: a year and the number of film records to display. If the procedure doesn't already exist, the program creates it automatically.

The procedure selects films released in that year and shows their title, release date, budget, and box office earnings. A calculated **Profit** column is also added to the display, which shows the difference between earnings and budget. The list is sorted by profit from highest to lowest, giving users a clear view of the most financially successful films from the chosen year.

This is a simple example of how to create and use a stored procedure in SQL and Python. It was included because stored procedures were one of the topics we covered in the subject, and I wanted to demonstrate how they can be applied in a real program. I also wanted to use some of the 'film' table records that were not used by the other menu options in the project..

Menu 8: Generate Reports

This option brings the user to a submenu where they can choose from five types of reports:

1. General database information

2. Summary of the actors table

3. List of married actors

4. Statistics on film studios

5. Top film pairs that share the most actors

Each report is saved as a .txt file in a reports folder, which the program creates automatically if it doesn't exist. If an error occurs, the error message is recorded in the report file instead of stopping the program.

I thought that when running the program, the user might not have any idea what the database contains or how it's structured. These reports give them a quick and clear overview of the data. They can be used as a starting point to explore the database and help users become familiar with the information available.