**David Thompson**

**My database application looks like this:**

**A picture containing text, person, music

Description automatically generated**

**How to get started:**

Start the application with the .exe file located in bin>debug>net5.0-windows> Coursework 2-library.exe

Select the connection in the connection tab and browse for a database, in the case of this project, the database file called “pontybrynlibrary.db” is used. The file is then selected, and you can proceed to “ Test connection” to connect to the database, allowing the application to then be able to view and edit the data stored

**What I did to achieve this:**

I firstly changed the borders of the form to none, removed the control box and styled the layout of the interface using panels, menu strips and toolstrips, as well as searching for my own photos and icons using copyright-free websites.

Once the design was completed as well as the main coding to successfully connect to the database, I started implementing many of the easier tasks such as adding the ability to add, modify and delete details via the edit menu strips. The other easier tasks were also added to the application, via the view menustrip, to list all members, authors, and books.

Attached to the “books” menu item I also added menu items to list books by particular categories, which included the use of joins with the appropriate tables.

More of the Harder tasks that were also successfully attempted was the displaying of the current loans with previous and next buttons in the “view” section. This also included joins with many appropriate tables.

Finally, I implemented a form that allows the user to record a new loan. This made use of combo boxes to select the book titles, member name and date using a datetime picker, with many joins.

Overall, I believe the assignment was completed successfully where all main functions implemented are operational, with many of the more difficult tasks attempted , i.e., records new loan, view all current loans, list books by a particular category, and listing loans due for return in the next 7 days attached to current loans menu item.