Bank Application.

Zhou Jinyu,
 221-2,
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https://github.com/goldFish9616/dsba-itop2023-hw.git

Report.
A project with some data of a client of a bank was made.

In the process f implementation I didn't make grouping (what means showing certain group of clients with some same category) and multilingual support. The foremost feature wasn't made because of the lack of time, generally I could make it throw connecting the button in the Main Window with the new class with ui and then use the method search from class SearchWindow, but returning a list of lists of strings. The latter feature wasn't implemented, because it was quite hard for me to find the needed functions and signals.

The section of the showing the clients' profile could be implemented better with using Q... Mapper, but the following connecting process was rather harder than I imagined, time was limited, so I gave up this method and used just usual initialization and local saving.

In the searchWindow I used lambda function for search

The file opens automatically with the "run" of the application and saves also all changes automatically back to the initial file.
On the Main Window there is a tableView which depicts data of all clients in the table format. The main attributes are Client's number, his/her age, marital status, education level, income category, card category, credit limit, total revolving balance and his/her total utilization ratio.

A user can sort data by client's number, age, credit limit, total revolving balance and his/her total utilization ratio in both directions (descending and ascending) by choosing the sort category in a combo box and selecting if user wants it in descending or ascending order(radio button). Ascending order is by default.

A user can also take a look at a more visual-friendly diagram, by clicking on the button "Show visualization". There are three categories(diagrams) that can be chosen. Income is set by default. The data on which the diagram is based is renewed automatically after changing the information about clients.

A user can also search for clients. When he/she clicks the button "Search Client" a new window will be opened with the request to input the number of the client's, who he/she wants to find.

After pressing the button "Find", a user will be directed to the profile of that client with all the details and can edit or remove the information about that client.

A user can get to the profile of a concrete client by double-clicking any cell of the tableView. A user will be again directed to the profile of that client, on which data a user clicked, and can again either edit, remove or do nothing with the data of that client.

Finally, a user can click on "Help" and get access to the about Window that shows the brief description of the application, the logo of the application and its id.