#KhandelwalAkshita

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I Created a Student Query Tool with 5 different functions to execute the queries mentioned. The functions are as follows.

Def function for all display\_all, display\_sirname, display\_gradyear and display\_summary.

Firstly, to use the program the data file open should be accurate or else the error will pop up saying (‘Please enter a valid file name’)

When you run the code, the tool will ask the user to input any of the 5 options -

Press 1 - Display all students  
Press 2 - Display all students (Filter by Last name)  
Press 3 - Display all students (Filter by Grad Year)  
Press 4 - Display a Summary Report of Students Program-wise  
Press 0 – quit

Any other number entered will result in the message saying, ‘Invalid Input choice.’ Enter once more. and request another input from the user.

When user press 1 – The tool will display all the student records and will prompt the user to either quit or choose from the main options

When you press 2 - The tool will show all student records that have been filtered by last name or the first few letters of any last name (not case sensitive).

When you press 3 - The tool will show all student records with the Graduation Year filter applied. The user will be prompted to enter the year. If you enter any other year that is not already in the database. The error message pops up saying (‘You entered the year out of range’). The tool will then prompt you to choose whether you wish to try again in a year, return to the main settings screen, or close the application.

When you enter 4 – The tool will show the summary report of number and percentage of students in each program for students that graduates after the specific year. There is a specified range that user must follow (from 2019 to 2021). If user still write the incorrect year, then a message (‘Invalid Year’) will pop to inform the user that there is no data found for year mentioned.

The tool will then ask the user if they want to quit, return to the main options screen, or try again in a year.

The user will leave the tool after you type 0.