Applied databases - Final Project 2024

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Innovations

4.4.1 1 (View Cities by Country)

Additional Error handling:

If user entry is a number or a set of characters that doesn’t match any part of any of the country names, the program prints out *“No matches found for >user entry<. Please enter a valid country name (or part thereof)”* and returns to the main menu.

4.4.2 2 (Update City Population)

Additional error handling:

* In case of invalid city ID (not number) prompt user; Invalid input. “Please enter a number. Or 'X' to exit.
* In case user entry is out of range: “(!) No data found for the given City ID: 5000.” And return to “Enter city ID:”
* In case of invalid entry (anything other than i or d) at the [I]ncrease/[D]ecrease choice, prompt user: “(!) Invalid input. Please enter 'I' or 'D' (or X for exit)” the print out city details as per stored ID and offer the choice again. Or x returns to main
* Invalid entry handling at Population change value, user prompt: “(!) Entry must be a number. No change was made” and return to city “Enter city ID:”

4.4.3 3 (Add New Person)

Additional error handling:

* Value error handling for all numeric values (ID, Age, Salary and City), use prompt: “Entry must be a number.” and return to ID entry

Prompt user if person was successfully added and print out person details.

A screen shot of a computer

Description automatically generated

4.4.4 4 (Delete Person)

Additional error handling:

* Value error handling for Person ID; use prompt: “Entry must be a number.” and return to ID entry.
* ID not found error handling; if person ID not found, user prompted: “(!) Person ID >99999< not found. Nothing deleted.”

4.4.5 5 (View Countries by population)

Additional error handling:

* Value error handling for population; use prompt: “(!) Population entry must be a number.” and return < > = choices
* Not found error handling; if no country matches the criteria, user prompted: “No matches found for ( >9277558000 ) range.”

4.4.6 6 (Show Twinned Cities)

None

4.4.7 7 (Twin with Dublin)

Additional error handling:

* In case of invalid city ID (not number) prompt user; Invalid input. “Please enter a number. Or 'X' to exit.

Additional user prompt:

* “Selected city:” prompt if city exists on SQL