CS 5200 Project 1 Relational Database Implementation

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We would like to build a database for an expense tracking app, which will include the following features:

- CRUD user expenses with customizable details, i.e. date, amount, category, desciption, etc..

- Users can create multiple accounts to better record the payment method used for each transaction. For example, an account named BofA will include all the expenses paid with a Bank of America Credit Card.

- User can set periodical budgets for themselves, with a desired starting date and the duration of the budget cycle.

- The percentage of each expense is set to 100% by default. However, if the user is sharing the bill with other users, manually type in the percentage he/she is paying to split the bill among friends.

- User can view their expenses grouped over categories, period of time, or account.

Business rules:

- User has demographic information, and can hold multiple accounts

- Users track expenses, which records the account that is used to pay for the bill

- User sets budget for a designated period of time

- Budget has a set start date and duration period, so users can better view their spending analysis

- Each expense records the date, amount, category, currency, and an optional description that allow users to recall on the spending