**MoneyWatcher Project Schema**

Expenses ( ExpenseID, Day, CategoryID, Amount, VendorID, Description )

* Foreign Key CategoryID references Budget
* Foreign Key VendorID references Vendors

Vendors ( VendorID, Name, Description )

Budget ( CategoryID, Name, Amount )

Expenses Table: Used to track the expenses of a user

* Normalization
  + Each of the columns, the day, categoryID, amount, vendorID, and description are only functionally dependent on the ExpenseID.
* Column Names
  + ExpenseID - Primary key to identify each expense
  + Day - The day that the expense occurred
  + CategoryID - A reference to which category of the budget this expense falls under
  + Amount - The dollar amount of the expense
  + VendorID - A reference to which vendor the expense was paid to
* Description - A description of the expense
* Relation to other tables
  + Each expense is paid to a vendor, which is indicated by the VendorID. Each expense will also contribute toward a budget category, which is indicated by the CategoryID
* Entity Representation
  + Represents a monetary expense that the user incur

Vendors Table: Used to track different vendors that expenses can be paid to

* Normalization
  + Each of the columns, the name, and the description, are only functionally dependent on the VendorID.
* Column Names
  + VendorID - Primary key to identify each vendor
  + Name - The name of the vendor
  + Description - A description of the vendor
* Relation to other tables
  + Each vendor is paid through an expense. The expenses table contains a foreign key for the VendorID.
* Entity Representation
  + Represents a person/entity that the user is paying money to.

Budget Table: Used to set a budget for each category with a name and corresponding amount.

* Normalization
  + Each of the columns, the name, and the amount, are only functionally dependent on the CategoryID
* Column Names
  + CategoryID - Primary key to identify each category of the budget
  + Name - The name of the category
  + Amount - The amount of money allowed for the given category
* Relation to other tables
  + Shares a category with expenses in the Expenses table
* Entity Representation
  + Represents a budget that a user would set for themselves