

CCS 5A Fundamentals of Information Management Case Study

The Dumaguete City Tricycle Drivers and Vendors Association have a micro-lending project. The management hired you to develop a system for this micro-lending project. Your first task is to identify the different business rules. The following are the data that you gather during an interview with the Association's manager:

A beneficiary can either be a tricycle driver or a vendor but not both. Data needed on each beneficiary are beneficiary ID (identifier), name (composite attribute), address, occupation (this determines whether the beneficiary is a vendor or a tricycle driver), marital status, number of children, and loan balance. Vendors need to provide the names of the items that they sell and their store location. If the beneficiary is a tricycle driver, the plate number of the vehicle and its destination (e.g. "roving", "Banilad", "Camanjac", etc) are needed.

A beneficiary can avail many types of loans. The Association needs to keep track of the loan ID (identifier), loan name, and maximum amount that the beneficiary can avail of for a particular type of loan. The beneficiary can avail of a smaller amount, which is less than the maximum. The loan types (and their maximum amounts) that the tricycle drivers can avail of are new tricycle (170,000.00), supplies and repairs (10,000.00), and registration (5,000). The vendors can avail of a loan for additional capital (10,000.00). Both vendors and tricycle drivers can avail of the following loans: tuition fee (20,000.00), school supplies (5,000.00), and medical expenses (30,000.00). A beneficiary can avail several loans pending approval from the association's management.

When a beneficiary avails of a loan, the Association keeps track of the following data: disbursement voucher number (identifier), date of the loan, and the amount loaned. If the beneficiary avails a loan, his or her loan balance will increase.

When a beneficiary pays his or her loan, the Association needs the following data: official receipt number (identifier), date of payment, and amount of payment. If the beneficiary pays his or her loan, the loan balance will decrease.

From the data that you have gathered, write down the different rules.