Designing and Implementing a database to store information related to Beta University Annual Fund's donors and donations

Beta University Annual Fund

Database Design Project

Christopher LaRosa, TJ Augustine, Chris O'Callaghan

1 PROJECT DESCRIPTION

1.1 BACKGROUND

This project is designed for the Beta University Annual Fund which collects over ten million dollars annually. Individuals who have donated previously include graduating seniors, faculty, administrators, and many other people who have been positively affected by the college. Fundraising events are held throughout the year including physical activities like spring golf outings as well as the 'phonothon' during which donors may call to donate or pledge to the college. Because the mailing list stored on a word processor was becoming difficult to maintain, this project endeavors to create a database to replace it.

1.2 SCOPE

In this project we will create a database to store personally identifiable information provided by donors as well as keeping track of payment information and producing reports based on stored and calculated data.

1.3 BENEFITS/USEFULNESS

The benefits of this are that it greatly helps Beta University keep track of who donates what. This can help the university be able to figure out their budget, as well as make predictions for profits coming in through donations in future years.

2 E-R DIAGRAM
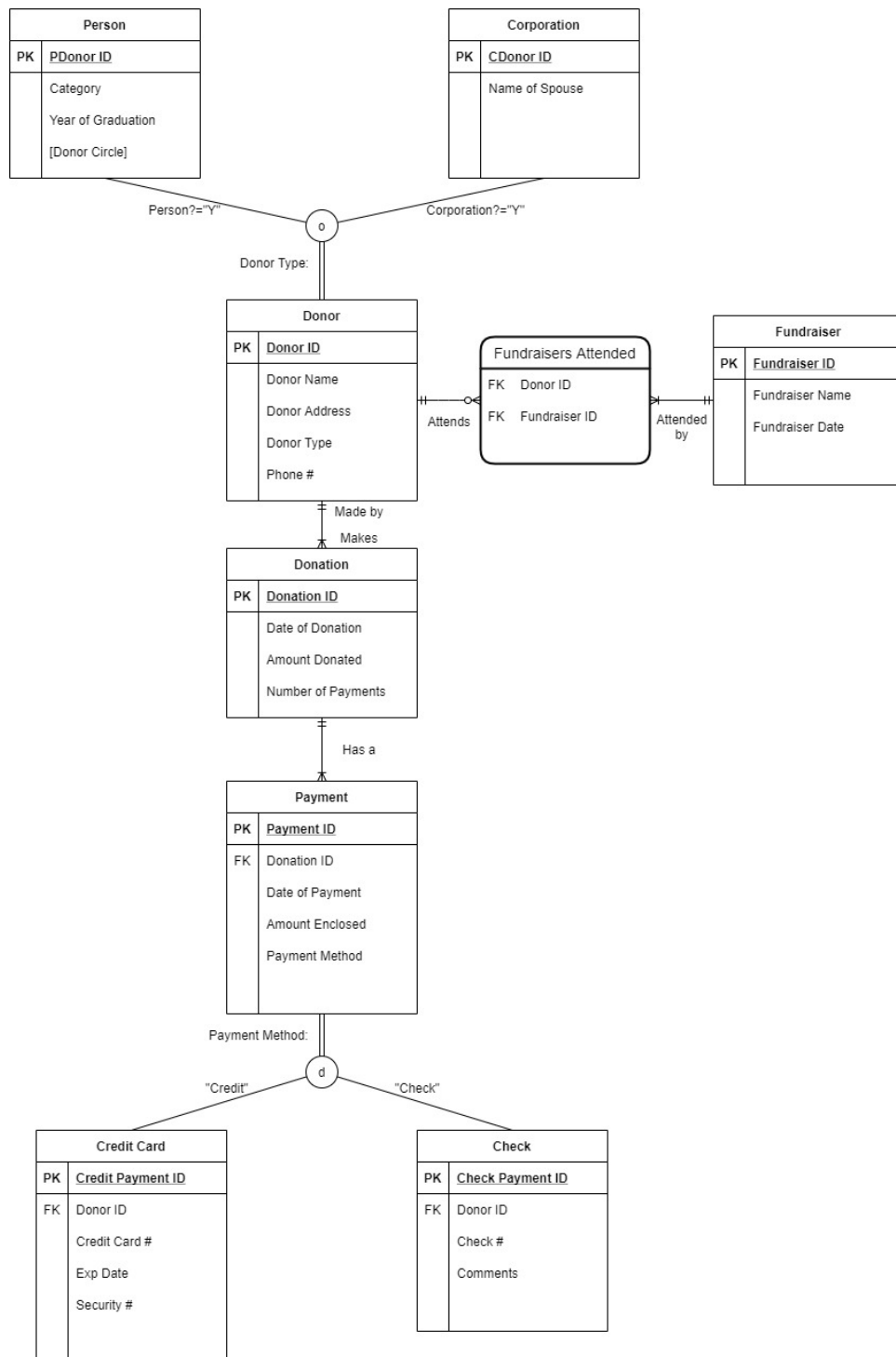
3 RELATIONAL SCHEMA (INITIAL)

CORPORATION

CDonor ID	Name of Spouse

PERSON

PDonor ID	Category	Year of Graduation

DONOR

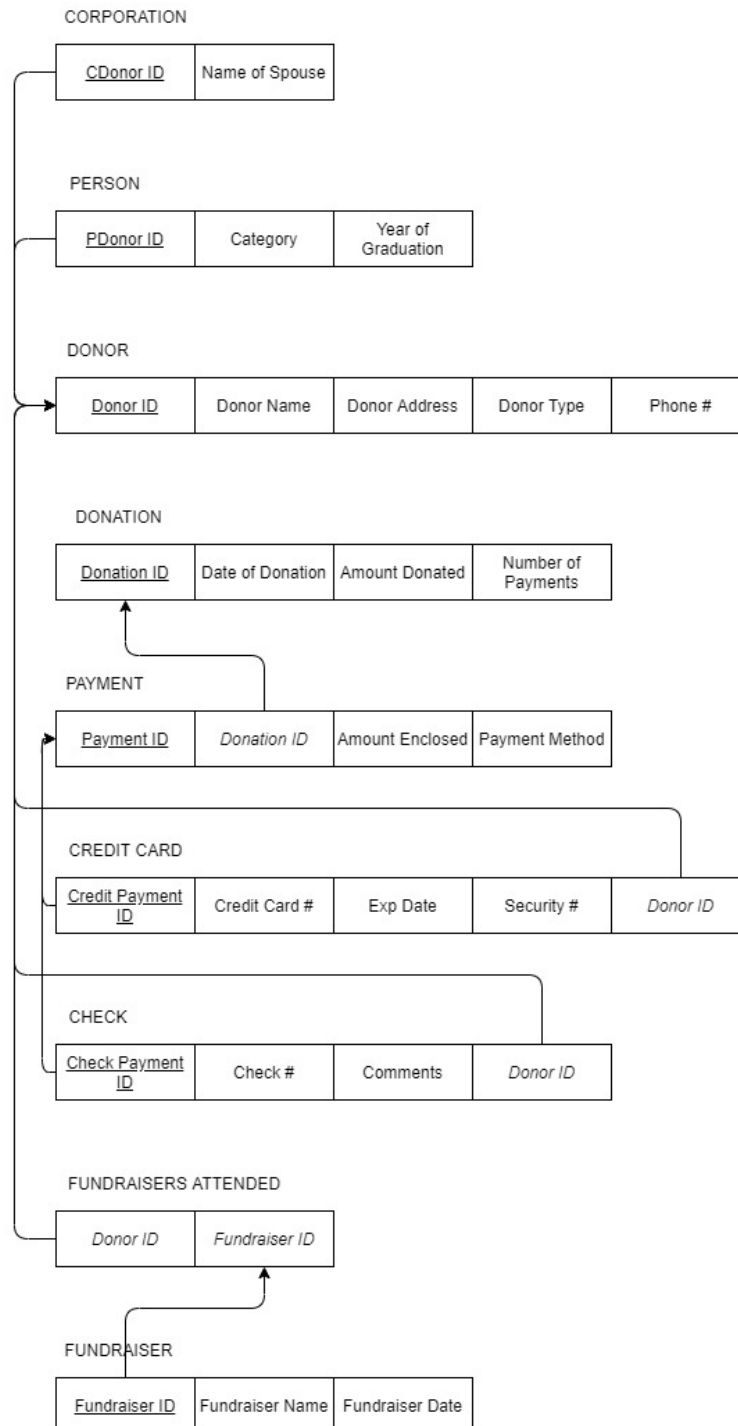| Donor ID	Donor Name	Donor Address	Donor Type	Phone #

DONATION

Donation ID	Date of Donation	Amount Donated	Number of Payments

PAYMENT

Payment ID	Donation ID	Amount Enclosed	Payment Method

CREDIT CARD

Credit Payment ID	Credit Card #	Exp Date	Security #	Donor ID

CHECK

Check Payment ID	Check #	Comments	Donor ID

FUNDRAISERS ATTENDED

Donor ID	Fundraiser ID

FUNDRAISER

Fundraiser ID	Fundraiser Name	Fundraiser Date

4 RELATIONAL SCHEMA (3NF)

Full Dependency

CORPORATION

CDonor ID	Name of Spouse

Full Dependency

PERSON

PDonor ID	Category	Year of Graduation

Full Dependency

DONOR

Donor ID	Donor Name	Donor Address	Donor Type	Phone #

Full Dependency

DONATION

Donation ID	Date of Donation	Amount Donated	Number of Payments

Full Dependency

PAYMENT

Payment ID	Donation ID	Amount Enclosed	Payment Method

Full Dependency

CREDIT CARD

Credit Payment ID	Credit Card #	Exp Date	Security #	Donor ID

Full Dependency

CHECK

Check Payment ID	Check #	Comments	Donor ID

FUNDRAISERS ATTENDED

Donor ID	Fundraiser ID

Full Dependency

FUNDRAISER

Fundraiser ID	Fundraiser Name	Fundraiser Date