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CS 340 Project Database Outline

DC People Database

There exists people and they have an id, a name, a gender, a morality, and an origin.

A person must have one origin. An origin may have zero or many people.

An origin consists of an id, planet, country, and city.

A person must have one morality. A morality may have zero or many people.

A morality consists of a moral tendency and who they are affiliated with (works for).

A person may have zero to many abilities. Abilities may belong to zero to many people.

Abilities consist of an id, name, and Boolean for if they are supernatural or not.

The relationship from People to Abilities is many to many, therefore an intermediate table is required, labeled Char_Abil. This table consists of two constraint foreign keys which refer to People.id and Abilities.id. The primary key for this table is the combination of both ids. Each constraint will cascade on delete and cascade on update.

The People table consists of an auto incremented id (primary key), a name which cannot be NULL, a gender, and 2 constraint foreign keys. One refers to the primary key of the Morality table and the other refers to the primary key of the Origin table. Each will cascade on delete and cascade on update.

The Abilities table consists of an auto incremented id (primary key), a name string which cannot be NULL, and a boolean named supernatural.

The Origin table will contain an auto incremented id (primary key), a city which cannot be NULL, a country, and a planet.

The Morality table will contain an auto incremented id (primary key), a moral tendency which cannot be null, and a string for who they work for.

All tables will use the InnoDB engine.