

Megan Makini  
Dr. Alan Labouseur  
Database Management  
17 November 2016

### Lab 9: Normalization Three

1. Functional Dependencies:

PID → FirstName, LastName, Age, SpouseName

PID → HighestAcademicDegree, FavoriteVideoGame

PID → YearsFlying, GolfHandicap

PID → ChairPreference, DrinkPreference, RecommendedHangoverCure

SpacecraftName, TailNumber → SysID, CID, WeightTons, FuelType, CrewCapacity

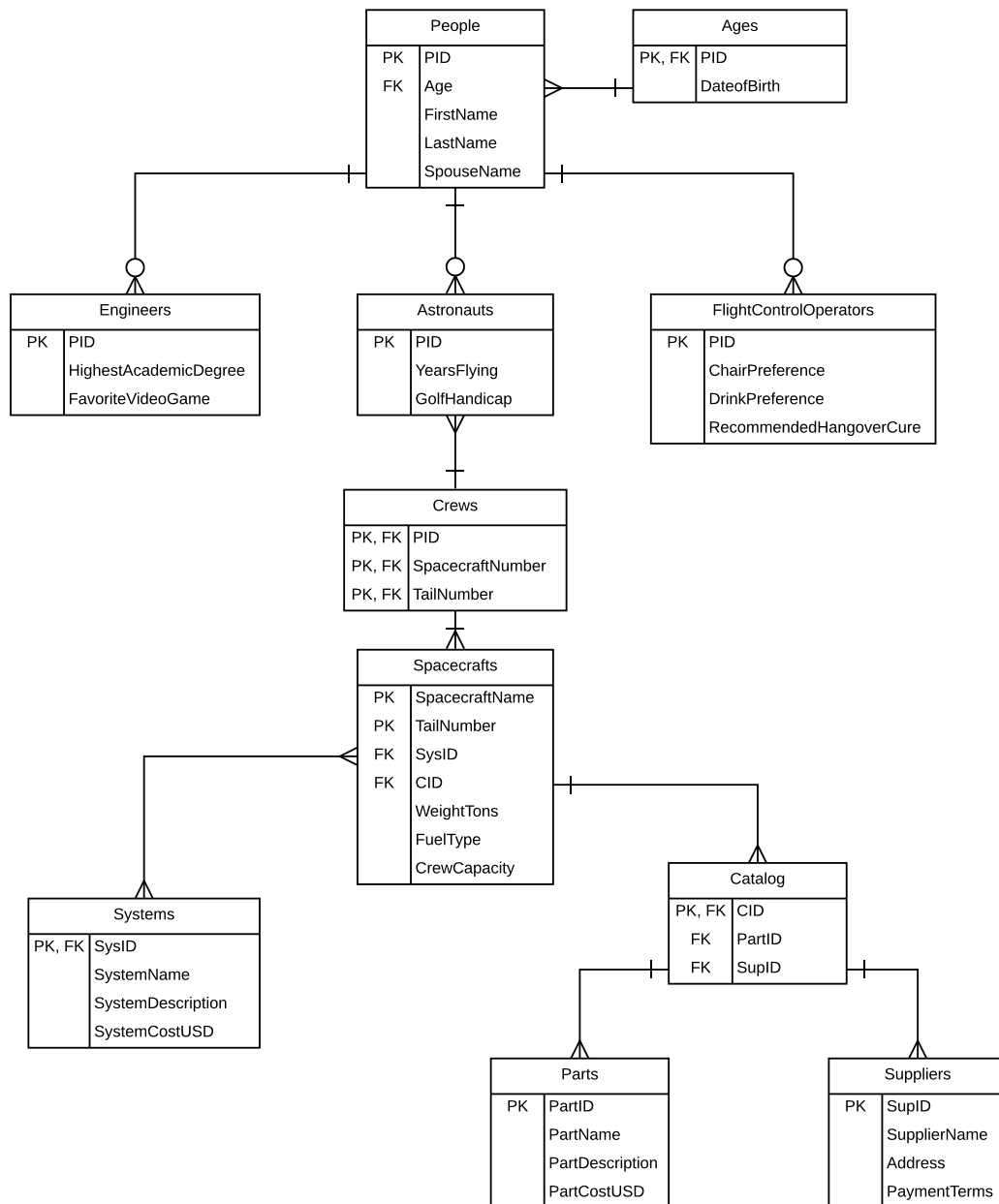
SysID → System Name, SystemDescription, SystemCostUSD

CID → PartID, SupID

PartID → PartName, PartDescription, PartCostUSD

SupID → SupplierName, Address, PaymentTerms

## 2. E/R Diagram



## 3. Convince me that your database is in 3NF

The database contains only atomic fields that have no internal structure, no partial dependencies, or multiple dependencies. Meeting the three criteria listed before, the database meets 1NF, 2NF, and ultimately 3NF.