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Labouseur
Database Systems
Lab 9
Normalisation 3

1)

The functional dependencies are as follows:

People

pid -> firstName, lastName, age

Engineers

pid -> highestDegree, favVideoGame

FlightControlOperators

pid -> chairPref, drinkPref, hangoverCure

Astronauts

pid -> yearsFlying, golfHandicap, spouseName

Crew

pid, spacecraftID ->

Spacecrafts

spacecraftID -> name, tailNumber, weightInTons, fuelType, crewCapacity

Systems

systemID -> name, description, costUSD

Parts

partID -> name, description, costUSD

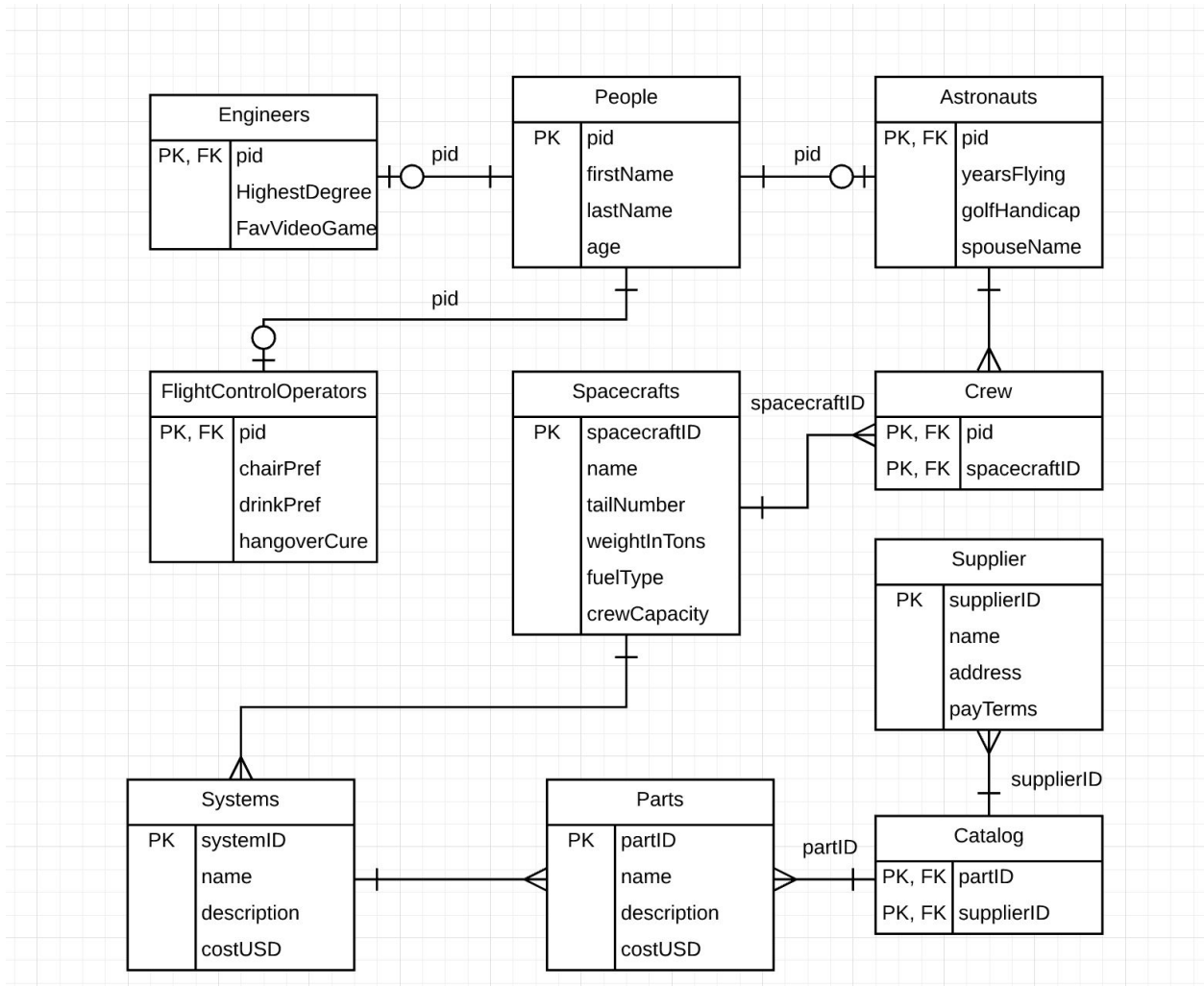
Catalog

partID, supplierID ->

Supplier

supplierID -> name, address, paymentTerms

2)



3)

It is in first normal form as all the data is atomic, as it cannot be separated or broken down further. It is in second normal form, as there are no partial key dependencies. It is in third normal form as all data is solely dependent on its key.