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11/20/17

Normalization 3 – lab 9

1. All functional dependencies are:

People- PID→ firstName, LastName, age

Engineers- PID→ highestAcademicDegree, favoriteVideoGame

Astronauts- PID → yearsFlying, golfHandicap, spouse

Flight Control Operators- PID → chairPreference, preferredDrink, hangoverCure

Crew- PID, Spacecraft_ID

Spacecraft- Spacecraft ID → tailNumber, weight, fuelType, crewCapacity

System/Spacecraft_Systems_ID, Spacecraft_ID

Systems- Systems ID → name, description, costUSD

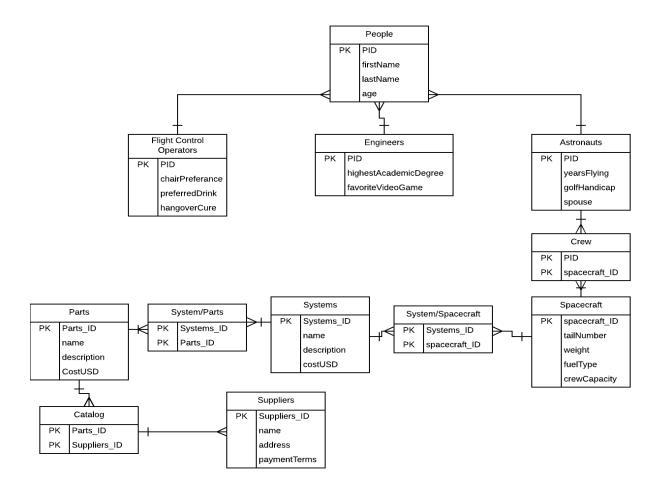
Systems/parts- systems_ID, parts_ID

Parts- Parts ID→ name, description, costUSD

Catalogue- parts_ID, suppliers_ID

Suppliers- Suppliers ID→ name, address, paymentTerm

2.



3. The following database is in third normal form because it needs second normal form. It is in second normal form because all the non attributes are dependent on the primary keys. Therefore, the requirement is made and there is no transitive dependences. The table can be considered to be in boyce codd normal form because the determinant is a candidate key in which its divided into tables.