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Database Management
Lab 9
11/16/16

1)
PID → First Name, Last Name, Age
PID → Years Flying, Golf Handicap, Spouse First Name, Spouse Last Name
PID → Highest Academic Degree
PID → Chair Preference, Preferred Drink, Recommended Hangover Cure
PID, SCID →
SCID → Name, Tail Number, Weight in Tons, Fuel Type, Crew Capacity
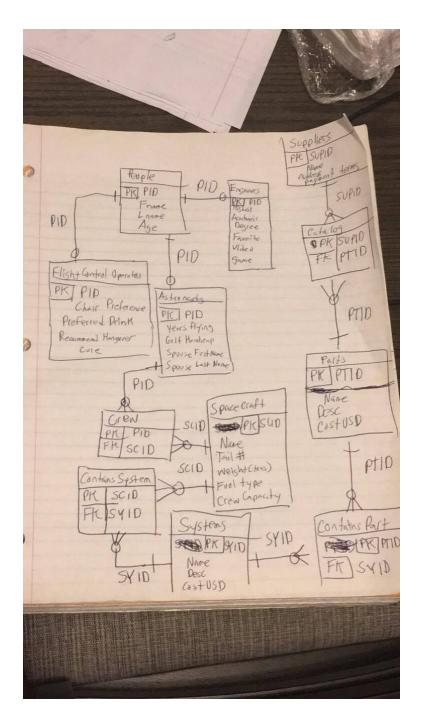SCID, SYID →
SYID → Name, Description, CostUSD
SYID PTSID →
PTID → Name, Description, CostUSD
SUPID, PTID →
SUPID → Name, Address, Payment Terms

2)

Supplies
PK SUPID
Name
Address
Payment terms

People
PK PID
Fname
Lname
Age

PID

Engineers
PK PID
this list
Academic
Degree
Favorite
Video
Game

SUPID

Catalog
PK SUPID
FK PTID

PID

Flight Control Operators
PK PID
Chair Preference
Preferred Drink
Recommend Hangover
Cure

Astronauts
PK PID
Years Flying
Golf Handicap
Spouse First Name
Spouse Last Name

PTID

Parts
PK PTID
Name
Desc
Cost USD

PID

Crew
PK PID
FK SCID

SCID

Space Craft
PK SCID
Name
Tail #
Weight (tons)
Fuel type
Crew Capacity

Contains System
PK SCID
FK SYID

SCID

PTID

SYID

Systems
PK SYID
Name
Desc
Cost USD

SYID

Contains Part
PK PTID
FK SYID

3) They are in 3rd NF because there are no transitive dependencies. All the columns other than the primary key depend on the primary key, and nothing but the primary key. It is in BCNF because there are no overlapping candidate keys.