Lab 9: Normalization Three

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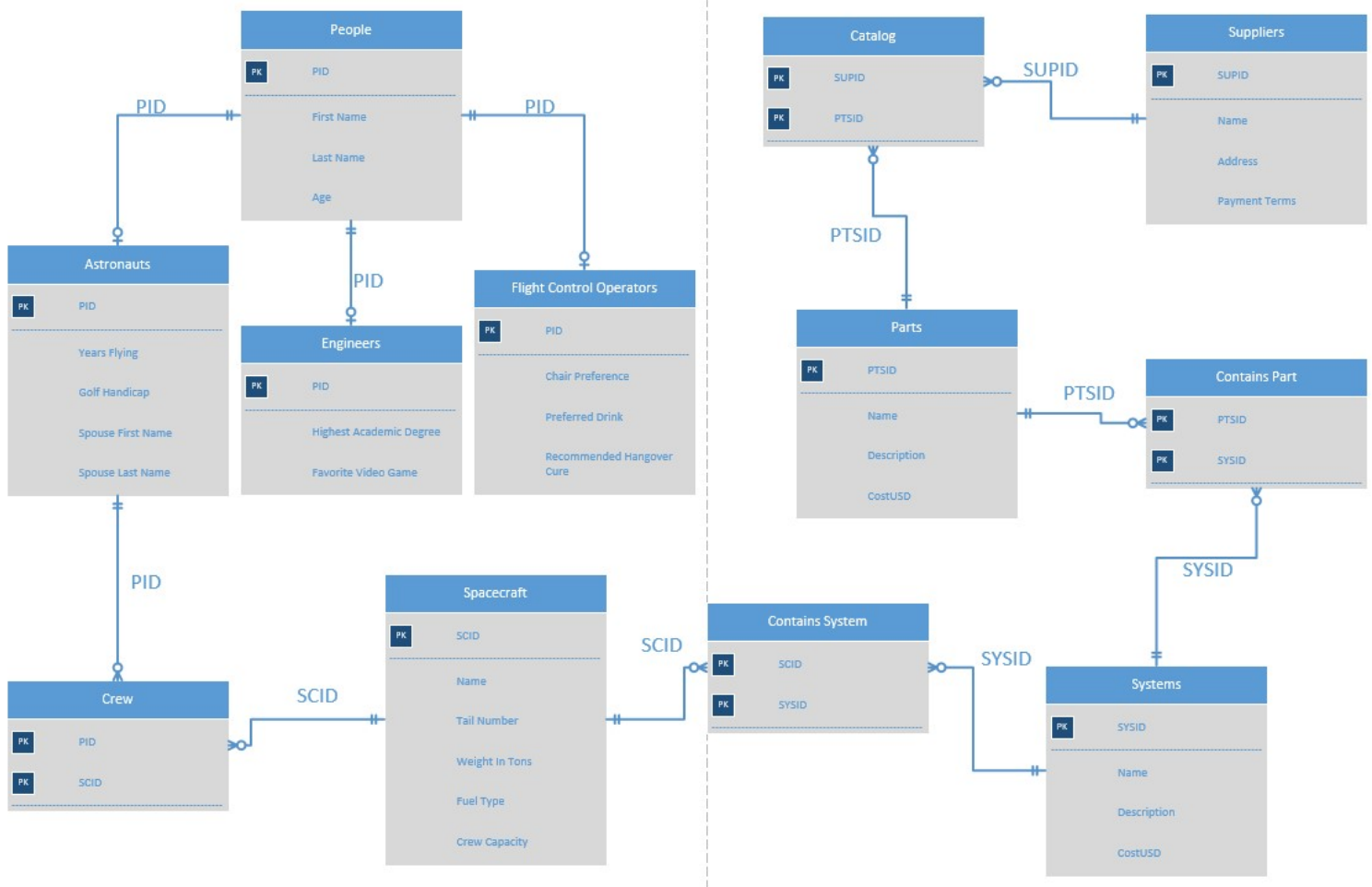SCID, SYSID →
SYSID → Name, Description, CostUSD
SYSID PTSID →
PTSID → Name, Description, CostUSD
SUPID, PTSID →
SUPID → Name, Address, Payment Terms

2.

3.

1NF – First Normal Form states that all field must be atomic and my database meets this form by all field being atomic.

2NF – Second Normal Form requires 1NF and states that everything is functionally dependent on the entire primary key and my database meets this form by having everything functionally dependent on the entire primary key.

3NF – Third Normal Form requires 2NF and states that there are no multi key dependencies and my database meets this form by have no multi key dependencies.

BCNF – Boyce-Codd Normal Form requires 3NF and states that there are not transitive key dependencies and my database meets this form by having no transitive dependencies.