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Database Management

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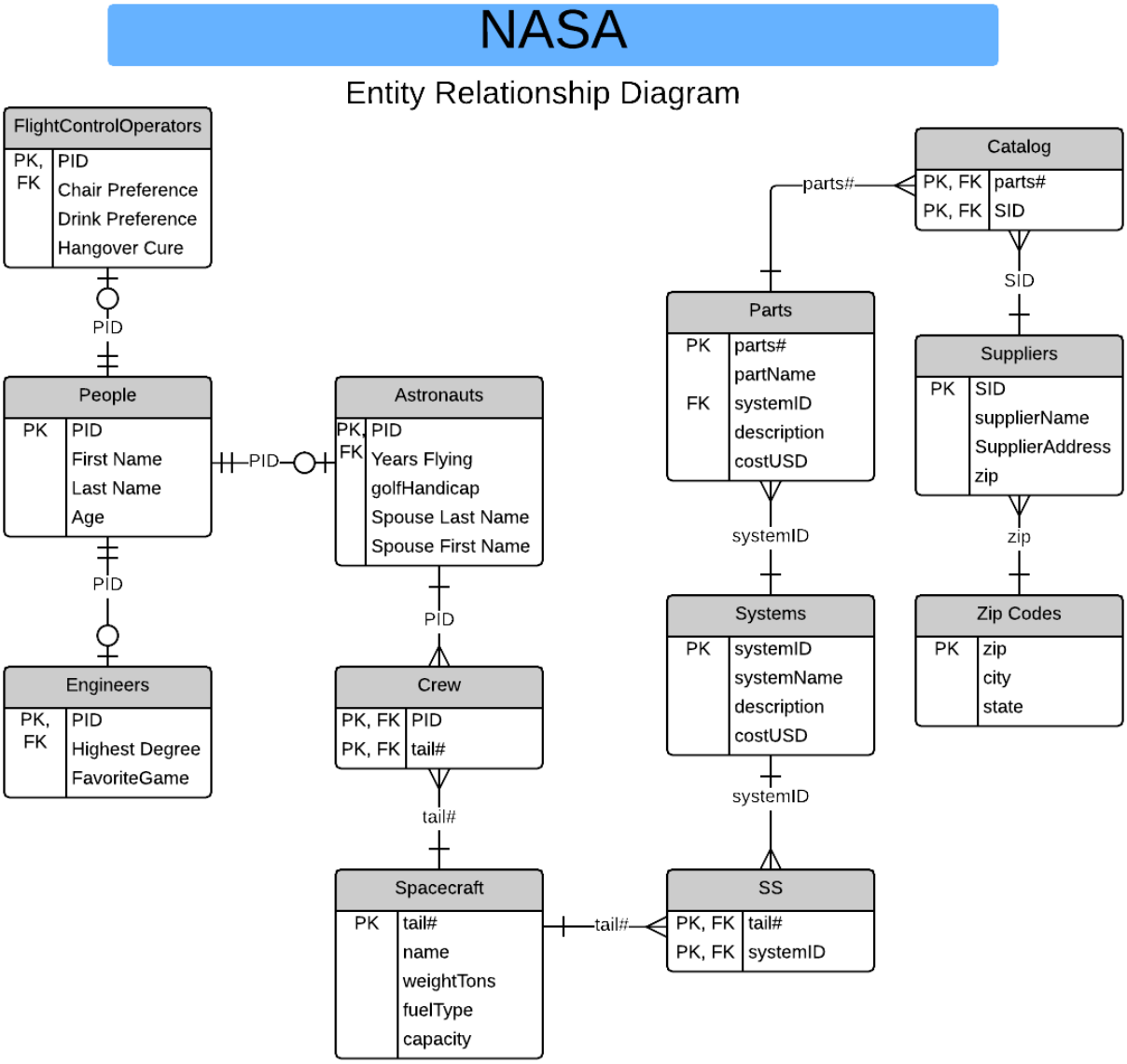

FlightControlOperators: PID → Chair preference, Drink Preference, Hangover Cure

People: PID → First Name, Last Name, Age

Engineers:	PID → Highest Degree, Favorite Game
Astronauts:	PID →Years Flying, golfHandicap, Spouses Last Name, Spouses First Name
Crew:	PID, Tail # →
Spacecraft:	Tail # → Name, weightTons, fuelType, Capacity
SS:	Tail #, SystemID →
Systems:	SystemID → System Name, description, costUSD
Parts:	Parts # → Part Name, SystemID, description, costUSD
Catalogs:	Parts #, SID →
Suppliers:	SID → Supplier Name, Supplier Address, zip
Zip Code:	Zip → City, State

This E/R Diagram is in 1NF because every column or attribute of data is atomic and does not contain more than one value or a grouping of attributes in one column. Along with 1NF, this diagram is also in 2NF because there are no multiple dependencies in each table and every non-key attribute can rely on the primary key of that table solely. The E/R Diagram is also in 3NF because there are no transitive dependencies in any of the tables. Nearly all tables are either described by one primary key or a composite key of two primary key columns with no non-key attributes.