Chris Koriniskie

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Database Systems

Lab 09

1. Functional Dependencies:

People table: pid→firstName, lastName, age

Engineers tables: pid → highestDegree, favVideoGame
Astronauts Table: pid → yearsFlying, golfHcp,spouseName
FlightControlOps Table: pid → chairPref,drinkPref,hangoverCure

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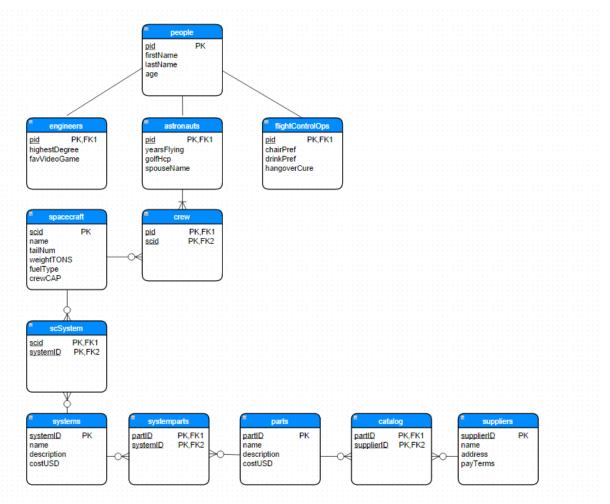
Spacecraft Table: scid→name, tailNum,weightTONS, fuelType,crewCap Systems Table: systemID→name, description, costUSD

Parts Table: partID→name, description, costUSD

Suppliers Table: supplierID→name, address, payTerms

Catalog Table: partID, supplierID→
SystemParts Table: partID,systemID→
ScSystem Table: scid, systemID→

Crew Table: pid, scid→



3. I have no transitive functional dependency. I created a separate people table because engineers, astronauts, and flight control operators all have a first name, last name, and age. I also created a spacecraft system (ScSystem) for the a spacecraft having many systems. Also a system parts table for a system having many parts. This ensures that every non key attribute is solely dependent on the primary key and only the primary key.