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Lab9 Normalization 3

1. Functional Dependencies
    1. People Table
        1. PeopleID → FName, LName, Age
    2. Engineers Table
        1. PeopleID → Degree, VideoGame
    3. Astronauts Table
        1. PeopleID → Flying_Years, Golf_Handicap, Spouse
    4. Flight_Control_Operators Table
        1. PeopleID → Chair, Drink, Hangover_Cure
    5. Crew Table
        1. CraftID → PeopleID
    6. Spacecraft Table
        1. CraftID → Name, TailNum, Weight_Tons, Fuel, CrewCap
    7. Space_Systems Table
        1. CraftID→ SysID
    8. Systems Table
        1. SysID →Description, costUSD
    9. System_Parts Table
        1. SysID→PartID
    10. Parts Table
        1. PartID→ Name, Description, costUSD
    11. Catalog Table
        1. SupID→ PartID
    12. Suppliers Table
        1. SupID→ Name, Address, Terms

2. see Lab9ER.pdf

3. For a database to be in 3NF it must first be in 2NF. For a database to be in 2NF it must first be in 1NF. This database is in 1NF because all attributes ARE atomic and each attribute only contains a single value. This database is in 2NF because it is in 1NF and every thing is functionally dependent on its primary key. This database is in 3NF because it is in 2NF (and transitively 1NF) and every attribute is dependent on the one key the whole key and nothing but the key. so help me Codd.