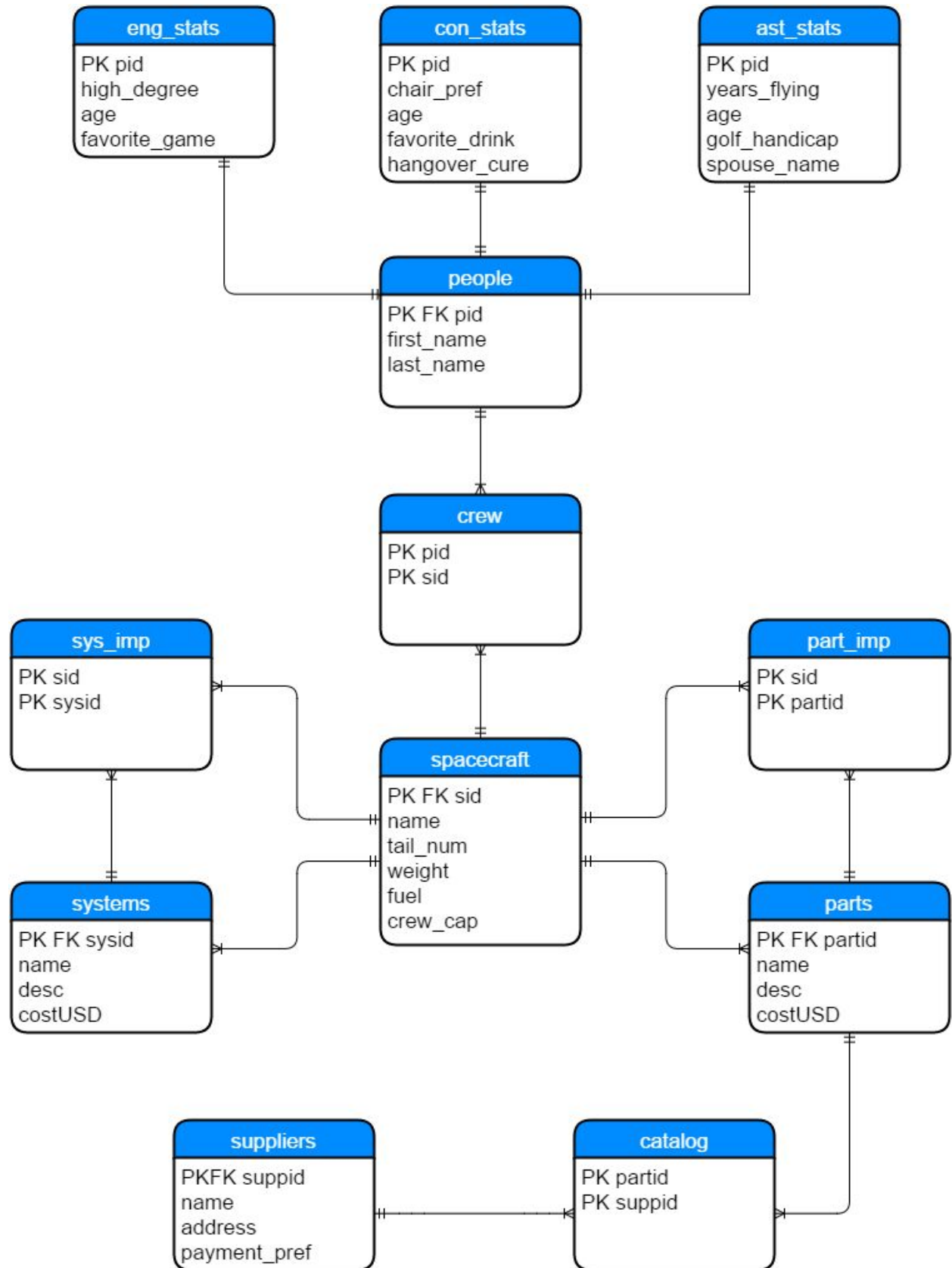


Raymond Mattingly

Professor Alan Labouseur

Database Management

16 November 2016



Raymond Mattingly

Professor Alan Labouseur

Database Management

16 November 2016

Database Summary:

- people records information on people
- eng_stats records information on engineers
- con_stats records information on flight controllers
- ast_stats records information on astronauts
- crew records people and their spacecraft assignments (with PK pid+sid)
- spacecraft records information on specific ships
- systems records information on systems
- parts records information on parts
- sys_imp records information on the systems aboard spacecraft (with PK sid+sysid)
- part_imp records information on the parts aboard spacecraft (with PK sid+partid)
- suppliers records supplier information
- catalog records which suppliers sell which parts (with PK partid+suppid)

The functional dependencies are as follows:

- Pid
 - First_name, last_name, age, high_degree, favorite_game, chair_pref, favorite_drink, hangover_cure, years_flying, golf_handicap, spouse_name
- Sid
 - Name, tail_num, weight, fuel, crew_cap
- Sysid
 - Name, desc, costUSD
- Partid
 - Name, desc, costUSD
- Suppid
 - Name, address, payment_pref

This database is in 3NF because it is 1NF, 2NF, and 3NF. This database is entirely atomic, meaning all data is in its simplest form. There are no partial key dependencies. There are also no transitive dependencies.