CST203CDBM280A1

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Questions and assumptions

* An animal can have at most 2 breads
* An animal must have a breed
* It is not possible for a breed to have 0 animals
* Animals can have multiple breeds
* An animal must have 1 and only 1 sire and dam, which is more than 1 animal
* An animal can only have 1 breeder
* A breeder is an organization, not an individual (no need to change name to fName,etc)
* A breeder can have bred more than 1 animal
* An animal must have been breed by a breeder
* An animal may be owned by a multitude of people
* An animal may not have an owner
* An owner can own a multitude of animals
* Decided to not have a registry, as it would only have 1 record in it (similar to the theatre in the example in class)
* It is not possible to add a species that doesn’t have a breed
* One ownership can only be owned by 1 person

Need table between Order/Product

Quantity table

Quantity table needs quantityID, FK to both Order/Product

Split up custName, custAddress, ordAddress

No real reason to split up ordName, as the order doesn’t have a last or first name

Real Final Schema

* Employee(empNo, empManagerNo(FK), empFName, empLName, empPhone, empDeptName, empCommRate)
  + Constraints:
    - Employee(empManagerNo(FK)) references Employee(empNO)
* Order(ordNo, custNo(FK), empNo(FK), ordDate, ordName, OrdStreet, ordStreetNum, ordCity)
  + Constraints:
    - Order(custNO(FK)) references Customer(custNo)
    - Order(empNo(FK) references Employee(empNo)
* Customer(custNo, custFName, custLName, custStreet,custStreetNum,custCity, custBal)
  + Constraints:NA
* Quantity(quantityID, ordNo(FK), prodNo(FK))
  + Constraints:
    - Quantity(ordNo(FK)) references Order(orderNo)
    - Quantity(prodNo(FK)) references Product(prodNo)
* Product(prodNo, prodName, prodQOH, prodPrice, prodNextShipDate)
  + Constraints: NA

