# CSC 261 DATABASE PROJECT MILESTONE 3 PART A

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## Relations:

The list of 7 relations:

* CONSUMER
* FARMER
* FARM
* ANIMAL
* PLANT
* CART
* ONSALECART

### Functional Relations used:

CONSUMERID 🡪 (PHONE, NAME, ADDRESS, AGE)

FARMERID 🡪 (PHONE, NAME, ADDRESS, BIRTH, EMAIL)

(FARMID, FARMERID) 🡪 (NAME, ADDRESS, IFPLANT, IFANIMAL, IFBOTH)

(FARMID, ANIMALSCNAME) 🡪 (NAME, PRICE, AMOUNTSALE, AMOUNT, UNIT, CONDITION)

(FARMID, PLANTSCNAME) 🡪 (NAME, PRICE, AMOUNTSALE, AMOUNT, UNIT, CONDITION)

(CONSUMERID, CUSTCARTID) 🡪 (ANIMALS, PLANTS)

(FARMID, CARTID) 🡪 (ANIMALS, PLANTS)

### Changes:

I edited the plant’s and animal’s SCIENTIFICNAME attributes to PLANTSCNAME and ANIMALSCNAME in order to mark them differently. I also deleted HISTORY attribute from CONSUMERID as I currently don’t have a way of producing historic consumer data.

## Conclusion:

The seven relations are in first second and Boyce-Codd normal forms.