

Relational Schema

groceryUser = (UserName, passcode, firstName, lastName, zip, state, city, street)

customer = (UserName [fk1], ccNumber, CVV, ExpDate)
fk1 : UserName → groceryUser.UserName

employee = (UserName [fk2])
fk2 : UserName → groceryUser.UserName

groceryAdmin = (UserName [fk6])
fk6 : UserName → groceryUser.UserName

groceryChain = (chainName)

manager = (UserName [fk4], Manages [fk5])
fk4: UserName → employee.UserName
fk5: Manages → groceryChain.chainName

store = (chainName [fk9], storeName, Zip, State, Clty, Street)
fk9 : chainName → groceryChain.chainName

technician = (UserName [fk10], Works_At [fk11])
fk10 : UserName → employee.UserName
fk11 : Works_At → store.chainName
drone = (ID, radius, zip, droneStatus, Worked_on_by [fk3])
fk3: Worked on by → technician.UserName

groceryOrder = (ID, orderStatus, orderDate, Made By [fk7], Deliver [fk8])
fk7 : Made by → customer.UserName
fk8 : Deliver → drone.ID

item = (itemName, orderType, origin, organic)

chainItem = (chainName [fk12], itemName [fk13], PLU Number, order_limit, quantity, price)
fk12 : chainName → groceryChain.chainName
fk13 : itemName → item.itemName

groceryContains = (ID [fk14], PLU Number, chainName , itemName[fk15],
groceryChain Item Quantity)
fk14 : ID → groceryOrder.ID
fk15 : PLU Number, chainName, itemName → ChainItem.PLU Number,
chainItem.chainName, ChainItem.itemName