

Pat Looft
CIS 4331-001
Assignment 2
04/10/2019
ENTITIES & ATTRIBUTES:

1. Equipment
 - a. SerialNo – unique attribute
 - b. LastInspectDate
 - c. DateMade
2. Rental
 - a. Price
 - b. Date
 - c. RentTransID
3. Equipment Detail
 - a. EquipmentDetailID – unique attribute
 - b. Make
 - c. Model
 - d. Type
4. Sale
 - a. SaleTransID – unique attribute
 - b. Price
 - c. Date
5. Sales Rep
 - a. SRepID – unique attribute
 - b. SRepLName
 - c. SRepFName
 - d. (SRepName) – Composite attribute - can be created using other attributes
 - e. Rank
6. Customer
 - a. CustID – unique Attribute
 - b. CustCategory
 - c. CustName

RELATIONS:

1. Equipment
 - a. Equipment -> Has -> Equipment Detail
 - i. One (equipment details) to many (equipment)
 - b. Equipment -> sold via -> Sale
 - i. One (equipment) to zero or one (sales)
 - c. Equipment -> rented via -> Rental
 - i. One (equipment) to zero or many (rentals)
2. Rental
 - a. Rental -> Rents Via -> Customer
 - i. One (customer) to zero or many (rentals)
 - b. Rental -> Conducts -> Sales Rep
 - i. Zero or many (rentals) to one (sales rep)

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- c. Rental -> rented via -> Equipment
 - i. Zero or many (rentals) to one (equipment)
- 3. Equipment Detail
 - a. Equipment Detail -> Has -> equipment
 - i. One (equipment detail) to many (equipment)
- 4. Sale
 - a. Sale -> sold via -> Equipment
 - i. Zero or one (sales) to one (equipment)
 - b. Sale -> Buys via -> Customer
 - i. Zero or many (sale) to one (customer)
 - c. Sale -> conducts -> Sales Rep
 - i. Zero or many (sales) to one (sales rep)
- 5. Sales Rep
 - a. Sales Rep -> conducts -> sale
 - i. One (sales rep) to zero or many (sales)
 - b. Sales Rep -> mentors -> Sales Rep
 - i. Zero to 3 (protégé) to zero or one (mentor)
- 6. Customer
 - a. Customer -> buys via -> Sale
 - i. One (customer) to zero or many (sale)
 - b. Customer -> rents via -> rentals
 - i. One (customer) to zero or many (rentals)