Phase 2 Updated EER | CS6400 Spring 2019 | Team 051

Modifications of the EER:

- Change "CITY" entity from weak entity to strong entity
- Add a composite attribute "Location" to "CITY" entity; the attribute "Location" consists of attribute "City name" and attribute "State"
- Change the relationship type of "STORE" to "CITY" as "N:1"
- Assign the attribute "Name" of the entity "MANUFACTURER" to be the identifying attribute
- Add a composite attribute "Name" to "MANAGER" entity; the attribute "Name" consists of attribute "First Name", attribute "Middle name" and attribute "Last name"
- Assign the attribute "E-mail address" of "MANAGER" entity to be the identifying attribute
- Delete "ON SALE" relationship with entity "DATE"
- Change the relationship name "SOLD WITH RETAIL PRICE" to "SOLD"
- Add attribute "Store" to "SOLD" relationship
- Change entity "SALE PRICE" to a weak entity, which is dependent on "PRODUCT" entity
- Delete attribute "Sold quantity" from "ON SALE" relationship
- Add attributes "Sale_price", "Year", "Month" and "Day" to entity "SALE PRICE"

Phase 2 Updated EER | CS 6400 - Spring 2019 | Team 051 Enhanced Entitiy-Relationship (EER) Diagram City name Population **Location** Phone State number CITY Street address Store LOCATEI Number Middle name Maximun Last First name <u>Name</u> **STORE** name Discount Name M ASSIGNED 'E-mai MANUFACTURER FOR **MANAGER** addres **SALE** MAKE If active BELONE **PRODUCT PID** TO <u>name</u> CATEGORY Μ Name Retail price Sold Year quantity **SOLD** SALE PRICE Month Store Day Sale_price DATE super/subtype Particitation: Year Double Line: Mandatory Participation Standard Line: Partial/Incomplete Participation Month Day **HOLIDAY** 1:N One-to-Many (many may be 0,1, or N)
N:M Many-to-Many (many may be 0,1, or N either side)
1:1 One-to-One Name

Relations:

Single Diamond: strong relationship Double Diamond: identifying relationship