In Phase 2, we have made the following changes on EER diagram:

Entities:

1. Entity HOLIDAY is changed as the subclass of entity DAY;

2. Entity CHILDCARE is changed from a weak entity to a strong entity which has Time_Limit as the primary key;

3. Derived attribute Population_Size_Category is deleted from entity CITY.

Relationships:

1. STORE -> CHILDCARE (HAS) as N:1
   Cardinality ratio is changed from 1:1 to N:1 and relationship name is changed from PROVIDE to HAS.

2. PRODUCT -> SALE (SOLD) as 1:1
   Cardinality ratio is changed from M:N to 1:1;

3. STORE -> SALE (SOLD) as 1:1
   Cardinality ratio is changed from 1:N to 1:1;

4. DAY -> SALE (SOLD) as 1:1
   Cardinality ratio is changed from 1:N to 1:1;

5. DAY -> DISCOUNT (HAS) as 1:1
   Cardinality ratio is changed from M:N to 1:1;

6. PRODUCT -> DISCOUNT (HAS) as 1:N
   Cardinality ratio is changed from 1:N to 1:1.

Updated EER is attached on the next page:

Phase 2 LSRS Updated EER - Spring 2021
Team 058