**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.*

1. PRODUCT -> SALE (SOLD) as 1:1

*Cardinality ratio is changed from M:N to 1:1;*

1. STORE -> SALE (SOLD) as 1:1

*Cardinality ratio is changed from 1:N to 1:1;*

1. DAY -> SALE (SOLD) as 1:1

*Cardinality ratio is changed from 1:N to 1:1;*

1. DAY -> DISCOUNT (HAS) as 1:1

*Cardinality ratio is changed from M:N to 1:1;*

1. PRODUCT -> DISCOUNT (HAS) as 1:N

*Cardinality ratio is changed from 1:N to 1:1.*

**Updated EER is attached on the next page:**

