

DBMS LAB ASSIGNMENT

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Database: Hotel

Weak Entity: In a relational database, a weak entity is an entity that cannot be uniquely identified by its attributes alone; therefore, it must use a foreign key in conjunction with its attributes to create a primary key. The foreign key is typically a primary key of an entity it is related to.

Weak Entity in our ER diagram: In the below ER diagram the entity “T2_Customer_Address” is a weak entity because it can’t be uniquely identified with its own attributes. As we could notice that there is no separate primary key for this entity. The ‘customer_id’ key acts as primary key and foreign key for the “T2_Customer_Address” entity. This entity is completely dependent on the “T2_Customer” entity’s primary key i.e., ‘customer_id’.

So, the entity “T2_Customer_Address” is the weak entity and the relation it shares with the “T2_Customer” entity is the weak relationship.

i.e., Strong Entity: **T2_Customer** – Independent and has a key attribute i.e., a primary key.

Weak Entity: **T2_Customer_Address** – Dependent and does not have a primary key.

ER DIAGRAM DESIGN OF DATABASE (HOTEL)

