

As **the weak entities** do not have any primary key, they cannot be identified on their own, so they **depend on some other entity (known as owner entity)**. **The weak entities** have total participation constraint (existence dependency) in its identifying relationship with owner identity. **Weak entity** types have partial keys.

**Weak entity** is represented by double rectangle. The relation between one strong and one **weak entity** is represented by double diamond. **Weak entities** are represented with double rectangular box in the ER Diagram and the identifying relationships are represented with double diamond.

**Strong entity** always have one primary key. **Weak entity** have a foreign key referencing primary key of **strong entity**. **Strong entity** is independent of other **entities**. **Weak entity** is dependent on **strong entity**.