

## Terminologies and Symbols of ERwin IE Format

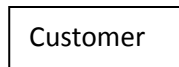
**Identifying relationship:** Shown with a solid line. An identifying relationship is a relationship between two entities in which the child entity is dependent on its associated parent entity, and the primary key of the parent entity is the part of the primary key of the child entity.

**Non-identifying Relationship:** Shown with a dashed line. A non-identifying relationship is a relationship between two entities in which the child entity is independent on its associated parent entity, and the primary key of the parent entity is the non-key attribute instead of the key attribute in the child entity.

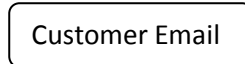
**Max relationship cardinality:** Shown with a short perpendicular line across the relationship near its line end to signify “one” and with a “crow’s foot” on the line end to signify “many”.

**Min relationship cardinality:** Shown with a small circle near the end of the line to signify “zero” (participation in the relationship is optional) or with a short perpendicular line across the relationship line to signify “one” (participation in the relationship is mandatory).

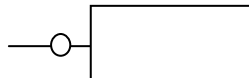
**Dependent Entity:**



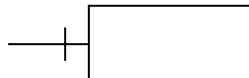
**Independent Entity:**



**Zero:**



**One:**



**Many:**

