

1. A customer is associated with many workorders.
2. Customers’ minimum cardinality is 1 because someone is a customer only if it has placed at least one order.
3. A workorder has many tasks associated with it, and also a task is associated with many workorders. Hence M-N relationship between workorder and task. Also not all tasks may be associated with workorder since they are standardized i.e. implemented before workorder arrived; their participation is optional.



1. Workorder is M-N related with Material with a two new attributes. So the M-N relationship is split into two 1-M relations with the help of weak entity (MaterialQty).
2. Since now Estimated Hours depends on both workorder and task, a new entity has been added to facilitate the change.