

Data Modeling Part-4



Content :-

1. ER to Relation
2. Constraint of Specialization and Generalization

ER to Relations/Table:-

For Relations :-

1:n → No Table is required

1:1 → No Table is required

M:N → A Table is required

For Strong entity :-

A table is required

For Weak entity :-

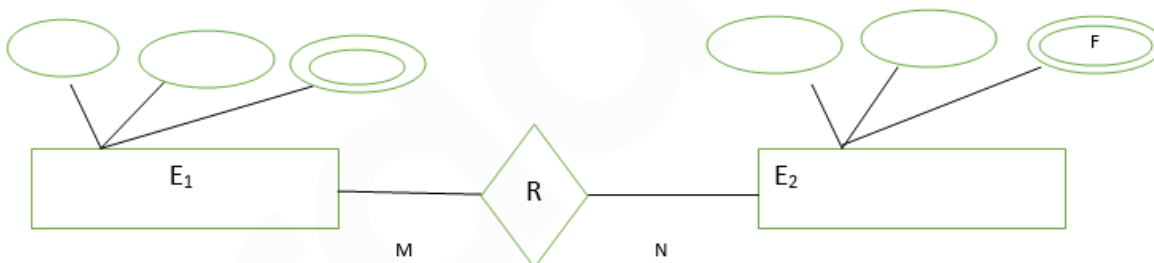
A table is required

For Multivalued attribute :

A Table is required

For composite attribute :-

A table is required



No. of Tables :-

For 2 strong entities	- 2
For M:N	- 1
For Multivalued attribute	- 2
Total	<hr/> 5 Tables <hr/>

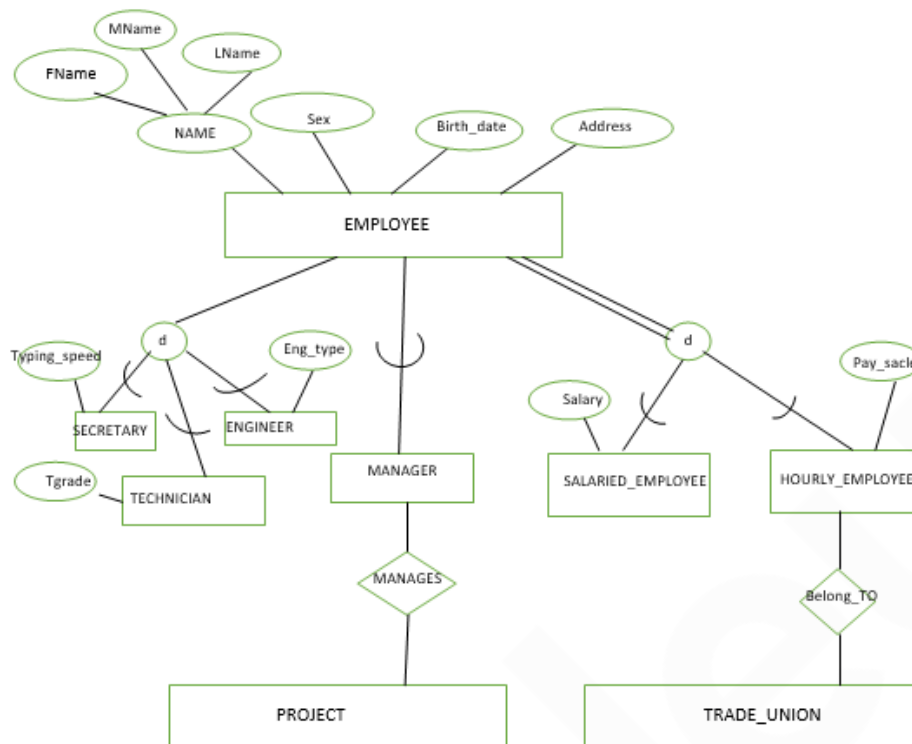
Constraints on Specialization and Generalization:

1. Disjointness
2. Overlapping

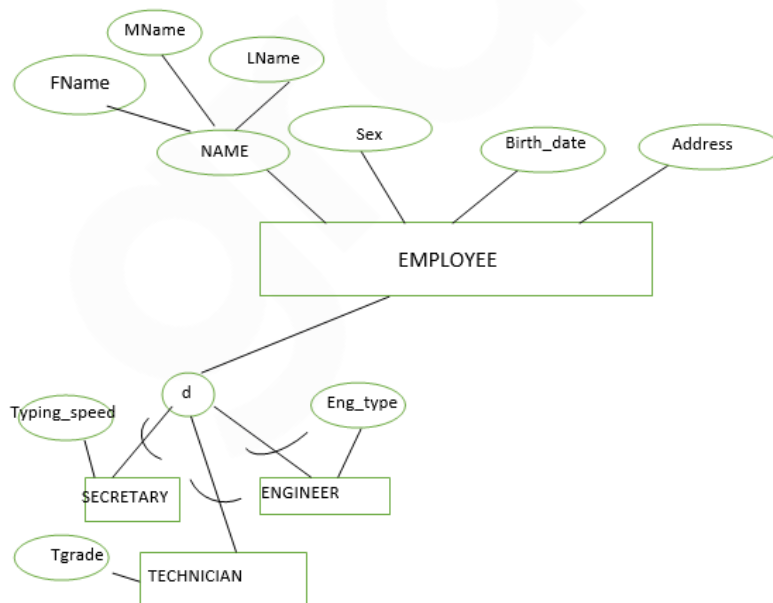


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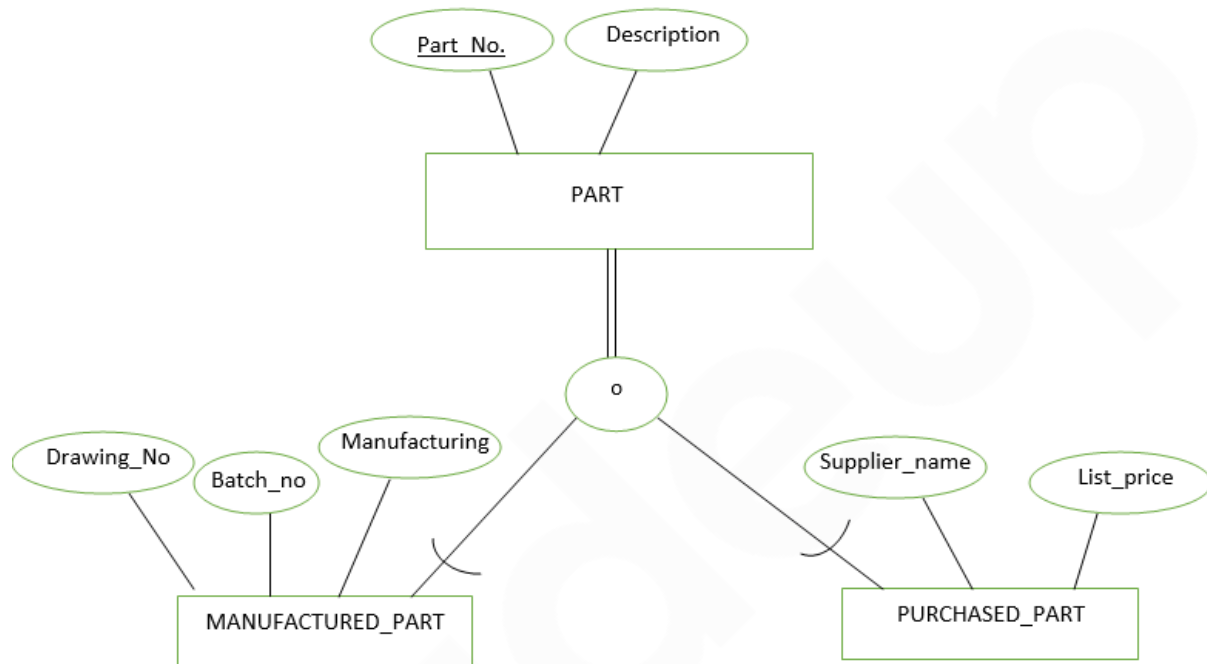


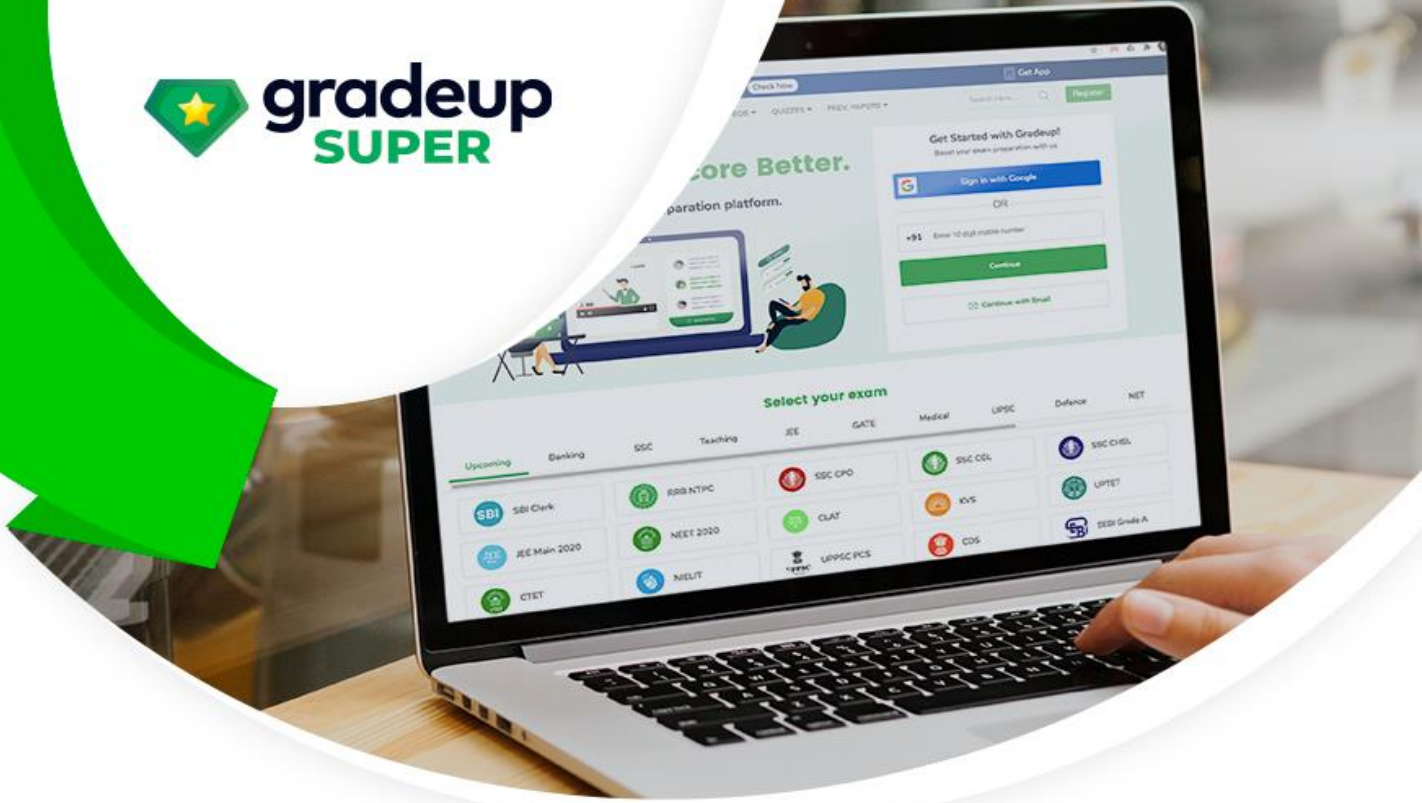


If all subclasses in a specialization have their membership condition on the same attribute of the super class , the specialization itself called an attribute-defined specialization and the attribute is called defining attribute of the specialization .



The Second Constraint on specialization is called the **completeness constraint** which may be complete or partial. A total specialization constraint specifies that every entity in the superclass must be a member of at least one subclass in the specialization .





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