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# SINGLE-VALUED ASSOCIATIONS

* An association from an entity instance to another entity instance
* Where the cardinality of the target is “one”
* Is called a single-valued association.

|  |  |
| --- | --- |
| **Source** | **Target** |
| MANY TO ONE - UNIDIRECTIONAL | |
|  | |
| ONE TO ONE - UNIDIRECTIONAL | |
|  | |
| ONE TO ONE - BIDIRECTIONAL | |
|  | |

# COLLECTION-VALUED ASSOCIATIONS

* When the source entity references one or more target entity instances.

|  |  |
| --- | --- |
| **Source** | **Target** |
| ONE TO MANY | |
|  | |
|  | |
| MANY TO MANY | |
|  | |