

@GeneratedValue

Strategy

Description

GenerationType.AUTO

Hibernate chooses the best strategy based on the database.

If you're using a database that supports sequences (e.g., Oracle, PostgreSQL), it might use a sequence.

If the database supports identity columns (e.g., MySQL, SQL Server), it might use the identity generation strategy.

GenerationType.IDENTITY

The database auto-generates the key using an identity column.

GenerationType.SEQUENCE

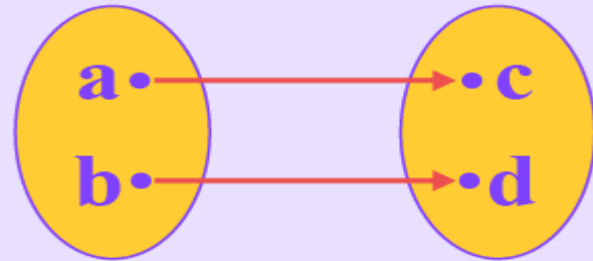
Uses a database sequence to generate the primary key.

GenerationType.TABLE

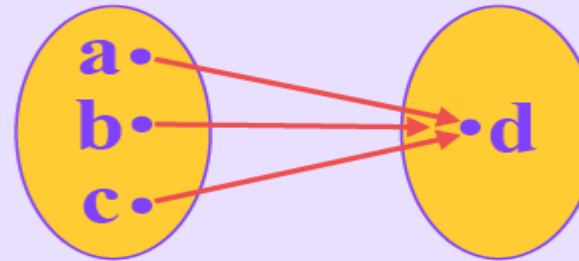
Uses a separate table to generate unique primary key values.

Identifying functions

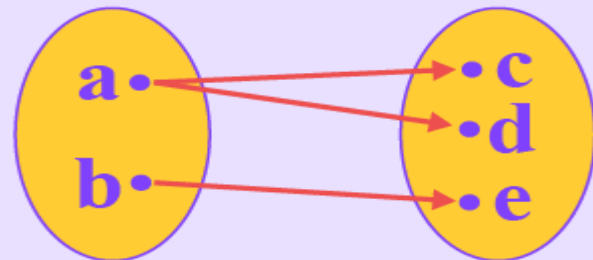
One-to-one
relation



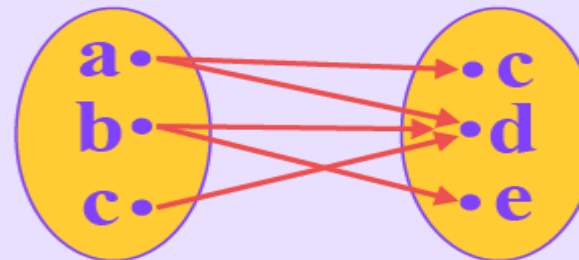
Many-to-one
relation



One-to-many
relation



Many-to-many
relation



Cascade Operations	Description
PERSIST	In this cascade operation, if the parent entity is persisted then all its related entity will also be persisted.
MERGE	In this cascade operation, if the parent entity is merged then all its related entity will also be merged.
DETACH	<p>In this cascade operation, if the parent entity is detached then all its related entity will also be detached.</p> <p>In JPA, detach refers to the process of removing an entity from the persistence context. Once an entity is detached, it becomes unmanaged, meaning that JPA will no longer track any changes made to that entity, and those changes will not be automatically persisted to the database.</p>
REFRESH	In this cascade operation, if the parent entity is refreshed then all its related entity will also be refreshed.
REMOVE	In this cascade operation, if the parent entity is removed then all its related entity will also be removed.
ALL	In this case, all the above cascade operations can be applied to the entities related to parent entity.

Person

ID	Name	Age

Passport

ID	Passport Number

Person

ID	Name	Age

Passport

ID	Passport Number	Person_id

Person

ID	Name	Age	Password_Id

Passport

ID	Passport Number

Person

ID	Name	Age	Password_Id

Passport

ID	Passport Number	Person_id

Person

ID	Name	Age

Address

ID	Address	Person_id

Person

ID	Name	Age

Jop

ID	Person_id

Person_id	Jop_id