

Updated the post with regards to latest Hibernate behavior. – manouti Sep 27 '18 at 16:31

There was an update, claiming that eager is default fetch type for every mapping, which is rebuted by chapter 11.3 in both current 5.x and new 6.x Hibernate documentation, so I undid the edit. Besides, it is against the recommendation to not have automatic eagerness, since this would mean to probably select the whole database when fetching a single object. – Alexander Rühl Jan 29 at 7:42 /

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I know the answers were correct at the time of asking the question - but since people (like me this minute) still happen to find them wondering why their WildFly 10 was behaving differently, I'd like to give an update for the current Hibernate 5.x version:



In the Hibernate 5.2 User Guide it is stated in chapter 11.2. Applying fetch strategies:

The Hibernate recommendation is to statically mark all associations lazy and to use dynamic fetching strategies for eagerness. This is unfortunately at odds with the JPA specification which defines that all one-to-one and many-to-one associations should be eagerly fetched by default. Hibernate, as a JPA provider, honors that default.

So Hibernate as well behaves like Ashish Agarwal stated above for JPA:

OneToMany: LAZY
ManyToOne: EAGER
ManyToMany: LAZY
OneToOne: EAGER

(see JPA 2.1 Spec)

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edited Feb 10 '17 at 20:31

answered Feb 10 '17 at 20:26



Alexander Rühl 4,441 ● 5 ● 39 ● 91

And what if we use the native hibernate instead of JPA impl, do it act the same way ? - jMounir Mar 2 '17 at 15.22

@jMounir: Well, I haven't tried that, but since Hibernate states that it behaves like defined in JPA, I don't see why that would differ when using Hibernate for itself. One can in both cases override the default strategy. – Alexander Rühl Mar 7 '17 at 11:51

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To answer your question, Hibernate is an implementation of the JPA standard. Hibernate has its own quirks of operation, but as per the Hibernate docs

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By default, Hibernate uses lazy select fetching for collections and lazy proxy fetching for singlevalued associations. These defaults make sense for most associations in the majority of applications.

So Hibernate will always load any object using a lazy fetching strategy, no matter what type of relationship you have declared. It will use a lazy proxy (which should be uninitialized but not null) for a single object in a one-to-one or many-to-one relationship, and a null collection that it will hydrate with values when you attempt to access it.

It should be understood that Hibernate will only attempt to fill these objects with values when you attempt to access the object, unless you specify fetchType.EAGER.

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answered Oct 28 '14 at 5:16



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For Single valued associations, i.e.-One-to-One and Many-to-One:-Default Lazy=proxy



Proxy lazy loading: This implies a proxy object of your associated entity is loaded. This means that only the id connecting the two entities is loaded for the proxy object of associated entity.

Eg: A and B are two entities with Many to one association. ie: There may be multiple A's for every B. Every object of A will contain a reference of B.

```
public class A{
    int aid;
    //some other A parameters;
   B b;
public class B{
    int bid:
     //some other B parameters;
```

Proxy implies when A is fetched, only id is fetched for B and stored into a proxy object of B which contains only id. Proxy object of B is a an object of a proxy-class which is a subclass of B with only minimal fields. Since bid is already part of relation A, it is not necessary to fire a query to get bid from the relation B. Other attributes of entity B are lazily loaded only when a field other than bid is

Default Lazy=true

Please also note that the fetch strategy(select,join etc) can override lazy, ie: If lazy='true' and fetch='join', fetching of A will also fetch B or Bs(In case of collections). You can get the reason if you think about it.

Default fetch for single valued association is "join".

Default fetch for collections is "select". Please verify the last two lines. I have deduced that logically.

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answered Sep 5 '17 at 7:39



The relation A will contain columns(aid,bid,...other columns of entity A).

The relation B will contain columns(bid,...other columns of entity B)

For Collections, i.e.-Many-to-Many and One-to-Many:-

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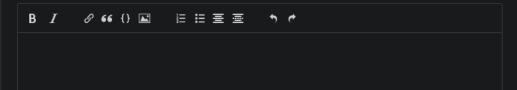
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