# Hibernate Tip: Initialize lazy relationships

### **Question:**

How can I initialize a lazy relationship within a query to avoid *LazyInitializationExceptions*?

### **Solution:**

Hibernate throws a *LazyInitializationException* if you try to use the attribute of a lazily fetched relationship outside of an active Hibernate Session.

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You can avoid that by initializing the relationship before you close the session. Hibernate and JPA support <u>different ways to do that</u>. The easiest one is a *JOIN FETCH* statement within a query, like the one in the following code snippet.

The additional *FETCH* keyword tells Hibernate to not only join the entity for the query but also to fetch it from the database to initialize the attribute. This prevents *LazyInitializationExceptions* if you access the relationship attribute outside of an active Hibernate Session.

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### Learn more:

Join Fetch statements are only 1 option to <u>initialize lazy relationships</u>. Other interesting options are <u>@NamedEntityGraphs</u> and <u>dynamic</u> <u>entity graphs</u> which allow you to define a query independent graph of entities which shall be fetched with a query.

Initializing a required lazy relationship does not only prevent *LazyInitializationExceptions*, it also can improve the performance by avoiding n+1 select issues. I get into more details about that in this <u>free mini-course</u> and in the <u>Hibernate Performance Tuning Online Training</u>.