

Hibernate Tip: Select a POJO with a Criteria Query

Question:

How can I select a POJO with a Criteria Query similar to a JPQL query?

Solution:

You can use a similar constructor expression with the Criteria API as you use in JPQL queries. The following code snippet shows an example of it.

```
CriteriaBuilder cb = em.getCriteriaBuilder();
CriteriaQuery q = cb.createQuery(AuthorValue.class);
Root root = q.from(Author.class);
q.select(cb.construct(AuthorValue.class,
    root.get(Author_.firstName), root.get(Author_.lastName)));

List authors = em.createQuery(q).getResultList();
```

You can see the definition of the constructor call in line 4. The *construct(Class resultClass, Selection... selection)* method of the *CriteriaBuilder* tells your JPA implementation to call the constructor of the *AuthorValue* class with a set of parameters. It does that for each record of the result set. In this example, I use the [JPA Metamodel](#) to reference the first name and last name as constructor parameters.

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Learn more:

If you don't want to create a POJO to represent your query result, you can also select a set of scalar values. You can learn more about it in my Hibernate Tip: [How to select multiple scalar values in a Criteria Query](#).

And if you want to learn more about creating type-safe, programmatic queries with the Criteria API, you should have a look at my [Advanced Hibernate Online Training](#). It has a whole module about the Criteria API and I also show other, advanced options to query your data.