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Hibernate mistakes – accessing objects outside of a transaction

07: Hibernate mistakes – accessing objects outside of a transaction

Posted on [January 9, 2015](#) by [Arulkumaran Kumaraswamipillai](#) — [No Comments](#) ↓

Hibernate does require the same **EntityManager** to be available in order to lazily load objects. If you have no EntityManager, then you have no knowledge of the datastore. Once the transaction is committed the objects become detached, and you can't lazy load detached objects. So, you need to lazily load your objects within the same transaction in your service layer.

For example: Account has one-to-many relationship with AccountAttributes. The AccountAttributes are lazily loaded via getAccountAttributes() method invocation.

The DAO class

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```

1  @Repository("portfolioDao")
2  public class PortfolioDaoImpl implements Portfol
3  {
4      @PersistenceContext
5      private EntityManager em;
6
7      @Override
8      public Portfolio getAccountById(Long account
9      {
10         Query query = em.createQuery("from Portf
11         query.setParameter("accId", accountId);
12
13         return (Account) query.getSingleResult()
14     }
15 }
16
17

```

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Wrong:

```

1  public class AccountServiceImpl implemnts Accou
2
3  public void processAcoount(Long accountId) {
4      Account account = accountDao.getSccountById
5      // exception is thrown
6      List<AccountAttributes> accountAttributes =
7  }
8  }
9

```

Right: as it is lazily loaded within the same transaction

```

1  public class AccountServiceImpl implemnts Acco
2
3  @Transactional
4  public void processAcoount(Long accountId) {
5      Account account = accountDao.getSccountById
6      // fine, as it is within the same txn, and
7      List<AccountAttributes> accountAttributes
8  }
9  }
10

```

Eager fetching is often not a good solution. Having said this there are downsides to lazy loading. The developer has to be aware of his/her fetching strategy and must be capable of differentiating when and where each strategy is most applicable. Otherwise you can end up with serious performance issues like the **N+1 Select Problem**.

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Fetching too much will run into the opposite problem, the cartesian product issue: instead of executing too many SQL statements, you may end up creating statements that retrieve too much data.

Tips:

- Firstly, activate SQL logging at Hibernate's level by turning `show_sql` to `true`.
- Run the critical use cases to identify suspicious queries and optimize the fetch plan. Check if indices are used appropriately, etc

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