CS544 EA
Hibernate

Queries

Queries

- So far we've used .find() or .getReference()
  - And then follow references to related objects
  - But what if you don't know an entity's ID?

- JPA offers **several ways** to query the DB
  - JPQL: Java Persistence Query Language (SQL like)
  - Criteria API: Create queries with Java objects
  - Stored Procedure Queries: executed stored procedures
  - Native Queries: Execute SQL and get objects

Our focus will be on JPQL

JQPL

- The Java Persistence Query Language (JPQL) is a standardization of the Hibernate Query language (HQL).
  - JPQL is a subset of HQL (HQL has a few extensions)

- JQPL syntax is **similar to SQL**, but OO:
  - Understands objects and attributes
  - Understands associations between objects
  - Understands inheritance and polymorphism

```
List<Account> accounts = em.createQuery("from Account a "
           + "where a.class <> CheckingAccount "
           + "and a.owner.firstName = 'Frank'", Account.class)
           .getResultList();
```

4