



CS544 EA

Hibernate

JPQL: Query Object

Creating and Executing

- You can **create** a typed or un-typed query:

```
// type safe version
TypedQuery<Person> query1 = em.createQuery("from Person", Person.class);
// Not type safe (original version)
Query query2 = em.createQuery("from Person");
```

Un-typed works same
but IDE will complain
about type safety

- You can **execute** it with `.getResultList()`

```
em.getTransaction().begin();

TypedQuery<Person> query = em.createQuery("from Person", Person.class)
List<Person> ppl = query.getResultList();

em.getTransaction().commit();
```

Queries should always
be inside a transaction

Named Queries

- You can create named queries
 - **Stored in meta-data** (annotations or XML)

```
@Entity
@NamedQueries({
    @NamedQuery(name = "Person.Everybody", query = "from Person")
})
public class Person {
    @Id
    @GeneratedValue
    private Long id;
    ...
}
```

- **Retrieved** with `.createNamedQuery()`

```
TypedQuery<Person> q = em.createNamedQuery("Person.Everybody", Person.class);
List<Person> ppl = q.getResultList();
```