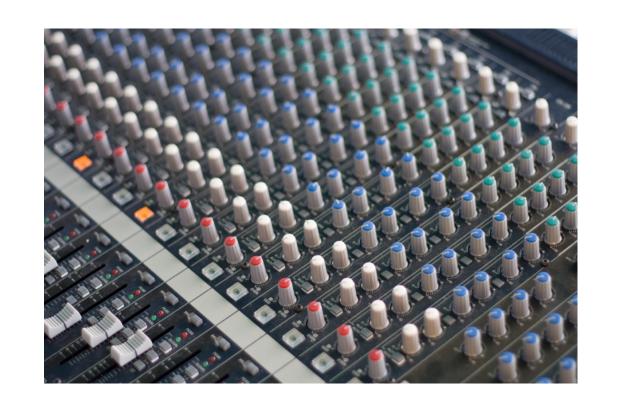
More Fun With Queries



Dan Bunker

http://www.linkedin.com/in/bunkerdan

@Query Annotation



Reuse existing JPQL in your data access layer
Advanced query functionality
Eager loading control ("fetch")

```
@Query("select m from Model m where m.name = ?1")
List<Model> queryByName(String name);
```

@Query Options

Named Parameters

```
@Query("select m from Model m where m.name = :modelname")
List<Model> queryByName(@Param("modelname") String name);
```

Enhanced JPQL Syntax

```
@Query("select m from Model m where m.name like %?1")
List<Model> queryByName(String name);
```

@Query Options

Native Queries

```
@Query(value = "select * from Model where name = ?0", nativeQuery = true)
List<Model> queryByName(String name);
```

Modifiable Queries

```
@Modifying
@Query("update Model m set m.name = ?1")
int updateByName(String name);
```

JPA NamedQueries

App startup validates queries rather than at runtime

```
@Entity
@NamedQuery(
 name="Model.namedFindAllModelsByType",
 query="select m from Model m where m.modelType.name = :name")
public class Model {...}
@Repository
public interface ModelJpaRepository extends JpaRepository<Model, Long> {
 List<Model> namedFindAllModelsByType(@Param("name") String type);
  @Query(name="Model.namedFindAllModelsByType")
  List<Model> findAllModelsByType(@Param("name") String type);
```

Native SQL Support

Native Queries

```
@Query(value = "select * from Model where name = ?0", nativeQuery = true)
List<Model> queryByName(String name);
```

@NamedNativeQuery

Tip: Where Should I Put My Queries?

Entity orm.xml

JpaRepository

NamedQuery NamedNativeQuery

Query DSL @Query

JpaRepository Query Precedence

Methods with @Query annotation take highest precedence Methods that match a named or native named query "name" Methods that follow the query DSL keyword naming structure

Summary



@Query annotationJPA NamedQueriesSQL NamedNativeQueries