Using Additional Spring Data Query Options



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Clip 2 - Overview Placeholder

Demo: @Query Annotation

Understanding the @Query Annotation







@Query Options

Named Parameters

Enhanced JPQL Syntax

```
@Query("select s from Session s where s.sessionName like %?1")
List<Session> getSessionsWithName(String name);
```

@Query Options

Native SQL Queries

```
@Query(value = "select * from sessions s where s.session_name = ?0", nativeQuery = true)
List<Session> getSessionsWithName(String name);
```

Modifiable Queries

```
@Modifying
@Query("update Session s set s.sessionName = ?1")
int updateSessionName(String name);
```

Using JPA @NamedQueries

Queries validated at app startup

```
@Entity
@NamedQuery(
    name = "TicketPrice.namedFindTicketsByPricingCategoryName",
    query = "select tp from TicketPrice two ricingCategory.pricingCategoryName = :name"
public class TicketPrice {...}
public interface TicketPriceJpaRepository extends IpaRepository<TicketPrice, Lbng> {
    List<TicketPrice> namedFindTicketsByPricingCategoryName(@Param("name") String name);
    @Query(name = "TicketPrice.namedFindTicketsByPricingCategoryName")
    List<TicketPrice> getTicketsByPricingCategoryName(@Param("name") String name);
```

Clip 6 - Overview Placeholder

Demo: NamedQueries

Querying with Native SQL

Native SQL Queries

```
@Query(value = "select * from sessions s where s.session_name = ?0", nativeQuery = true)
List<Session> getSessionsWithName(String name);
```

@NamedNativeQuery

```
@NamedNativeQuery(
    name = "TicketPrice.nativeFindTicketsByCategoryWithWorkshop",
    query = "select * from ticket_prices tp " +
        "left join ticket_types tt on tp.ticket_type_code = tt.ticket_type_code " +
        "left join pricing_categories pc on tp.pricing_category_code = pc.pricing_category_code " +
        "where tt.includes_workshop = true and pc.pricing_category_name = :name"
)
public class TicketPrice {...}
```

Clip 8 - Overview Placeholder

Demo: NamedNativeQueries

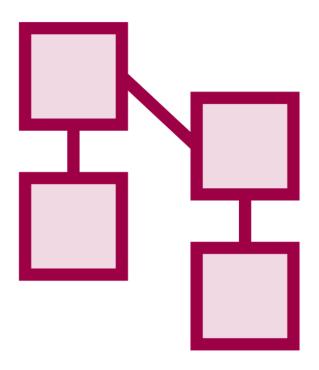
Tip: Where Should I Put My Queries?

JPA Entities

@NamedQuery

@NamedNativeQuery

SQL
JPQL
Query DSL

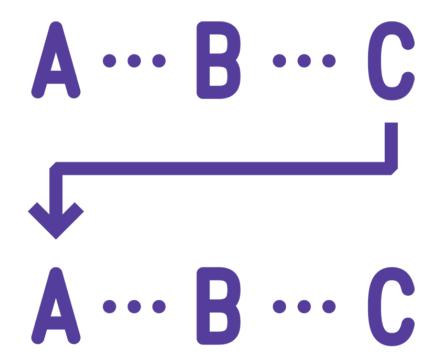


- @NamedQuery
- @NamedNativeQuery
- @Query

Query DSL



JpaRepository Query Precedence



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

Summary

@Query annotation

JPA NamedQueries

SQL NamedNativeQueries