

가 100%

JPQL 가

JPQL: Java Persistence Query Language ( !! )

( SQL )

-> SQL (feat Dialect)

SQL, SQL

( )

: , , ( , ), DISTINCT

가

setFirstResult(0) - 0

( )

- ON

JPA 2.1 가 , ( 5.1 가 )

exists, ALL, ANY 가 , (NOT) IN 가

JPA WHERE, HAVING 가 , SELECT

FROM JPQL 가 ( )

Native Query Application , 2

JPQL

: 'HELLO', 'She''s'

: 10L, 10D, 10F

Boolean: TRUE, FALSES

ENUM: FQCN

: TYPE(m) = Member

: EXISTS, IN, AND, OR, NOT, =, >, >=, <, <=, <>, BETWEEN, LIKE, IS

NULL

CASE : 가

CASE :

COALESCE:

NULLIF:

CONCAT, SUBSTRING, TRIM, LOWER, UPPER, LENGTH, LOCATE, ABS, SQRT, MOD, SIZE, INDEX(JPA )

(Dialect 가 ), select

function('group\_concat', i.name) from Item i ...

: , m.username, , 가

:

: @ManyToOne, @OneToOne, , (INNER

JOIN) , 가 가

: @OneToMany, @ManyToMany, , m.orders,

가( size 가 )

FROM 가 (join ) (JOIN )

(fetch join) JPQL ( SQL )

join fetch 가 fetch join ( - )

JPA DISTINCT (SQL DISTINCT JPA DISTINCT 가 ) - N+1

가 ( ), 가 API . ( ) , ( N+1 ) - ( ) 1000

TREAT(JAP 2.1), 가

JPQL 가

Named @Entity JPQL ( ), XML 가 SQL & Named 가

JPA UPDATE, DELETE executeUpdate() INSERT(insert into .. select, )

JPA Criteria JPQL JAVA ( , ) . SQL 가 ( ) , SQL

JPQL (Member)

(m) (as 가 ) - 가

QueryDSL  
JPQL

, 가

SQL

JDBC API , MyBatis, SpringJdbcTemplate  
em.persist()

```
// flush -> commit, query  
createNativeQuery, createQuery flush
```

[jpa, jpql](#)

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