

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 )  
SQL  
join fetch 가 fetch join ( - )  
가 )  
JPA DISTINCT (SQL DISTINCT JPA DISTINCT 가 )  
( ) - N+1  
가 ( ), 가  
API . ( )  
, 가 ,  
( N+1 ) - ( ) 1000

TREAT(JAP 2.1), 가

JPQL 가

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

JPA  
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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