Querydsl for Oracle(Rank, Dense_Rank, PartitionBy, OrderBy, 칼럼 별칭으로 정렬)

■ Rank, Dense_Rank는 Querydsl에서 기본적으로 지원한다.

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1. 작성하려 했던 SQL
SELECT ENAME, SAL, DEPTNO,
     RANK() OVER (ORDER BY SAL DESC) EMP_RANK,
     DENSE_RANK() OVER (PARTITION BY DEPTNO
              ORDER BY SAL DESC) DEPT_RANK
FROM EMP
ORDER BY EMP RANK, DEPT RANK;
2. JPA, querydsl을 이용하여 작성한 자바코드
// 사원 급여순위, 부서별 급여순위, RANK, DENSE_RANK
// DENSE_RANK는 1등이 몇명이더라도 다음순위는 2등
//-----
// [만들려고 했던 SQL 구문]
// SELECT ENAME, SAL, DEPTNO,
// RANK() OVER (ORDER BY SAL DESC) EMP_RANK,
// DENSE_RANK() OVER (PARTITION BY DEPTNO
//
             ORDER BY SAL DESC) DEPT_RANK
// FROM EMP
// ORDER BY EMP_RANK, DEPT_RANK;
//-----
// [Querydsl에서 생성한 SQL 코드]
// select EMP.ENAME, EMP.SAL, EMP.DEPTNO,
      rank() over (order by EMP.SAL desc) emp_rank,
//
//
      dense rank() over
         (partition by EMP.DEPTNO order by EMP.SAL desc) dept_rank
// from EMP EMP
// order by emp_rank asc, dept_rank asc
// 칼럼별칭으로 OrderBy하기 위해
```

```
Path<Long> emp_rank = Expressions.numberPath(Long.class, "emp_rank");
Path<Long> dept_rank = Expressions.numberPath(Long.class, "dept_rank");
List < Tuple > rows = queryFactory
       .select(emp.ename, emp.sal, emp.deptno,
                      SQLExpressions
                      .rank().over()
                      .orderBy(emp.sal.desc()).as(emp_rank),
                      SQLExpressions
                      .denseRank().over()
                      .partitionBy(emp.deptno)
                      .orderBy(emp.sal.desc()).as(dept_rank)
       )
       .from(emp)
       .orderBy(((ComparableExpressionBase < Long > )
                                                                        emp_rank).asc(),
((ComparableExpressionBase<Long>) dept_rank).asc())
       .fetch();
3. 실행된 쿼리 및 결과
select EMP.ENAME, EMP.SAL, EMP.DEPTNO,
     rank() over (order by EMP.SAL desc) emp_rank,
     dense rank() over (partition by EMP.DEPTNO order by EMP.SAL desc) dept rank
from EMP EMP
order by emp rank asc, dept rank asc
|-----|----|
|ename |sal |deptno |emp_rank |dept_rank |
|-----|-----|
|KING |5000 |10
|FORD |3000 |20
                             |1
|SCOTT |3000 |20
                    |2
                             |1
JONES |2975 |20
                    |4
                             |2
|BLAKE |2850 |30
                    |5
                             |1
|CLARK |2450 |10
                    |6
                             |2
|ALLEN |1600 |30
                    |7
                             |2
|TURNER |1500 |30
                    8
                             |3
|MILLER |1300 |10
                    |9
                             |3
WARD
       |1250 |30
                     10
                              |4
```

MARTIN	I 1250	30	10	4	
ADAMS	110	0 20	12	3	
JAMES	950	30	13	5	
SMITH	800	20	14	4	
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