

## CH1. ROWNUM

▶ 오라클이 기본으로 제공하는 컬럼으로, 조회된 순서대로 순번을 매김

```
--emp 테이블에 있는 row를 1~14번까지 순번을 매겨 조회해줌  
--ex)
```

```
SELECT ROWNUM NO,  
       e.*  
FROM EMP e;
```

	NO	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	1	7369	SMITH	CLERK	7902	1980-12-17 오전 12:00:00	800	(null)	20
2	2	7499	ALLEN	SALESMAN	7698	1981-02-20 오전 12:00:00	1600	300	30
3	3	7521	WARD	SALESMAN	7698	1981-02-22 오전 12:00:00	1250	500	30
4	4	7566	JONES	MANAGER	7839	1981-04-02 오전 12:00:00	2975	(null)	20
5	5	7654	MARTIN	SALESMAN	7698	1981-09-28 오전 12:00:00	1250	1400	30
6	6	7698	BLAKE	MANAGER	7839	1981-05-01 오전 12:00:00	2850	(null)	30
7	7	7782	CLARK	MANAGER	7839	1981-06-09 오전 12:00:00	2450	(null)	10
8	8	7788	SCOTT	ANALYST	7566	1987-04-19 오전 12:00:00	3000	(null)	20
9	9	7839	KING	PRESIDENT	(null)	1981-11-17 오전 12:00:00	5000	(null)	10
10	10	7844	TURNER	SALESMAN	7698	1981-09-08 오전 12:00:00	1500	0	30
11	11	7876	ADAMS	CLERK	7788	1987-05-23 오전 12:00:00	1100	(null)	20
12	12	7900	JAMES	CLERK	7698	1981-12-03 오전 12:00:00	950	(null)	30
13	13	7902	FORD	ANALYST	7566	1981-12-03 오전 12:00:00	3000	(null)	20
14	14	7934	MILLER	CLERK	7782	1982-01-23 오전 12:00:00	1300	(null)	10

- ORDER BY 를 사용하면 순번이 뒤섞이므로 정렬된 서브쿼리 결과에 ROWNUM 을 매겨야 한다.

--1)

```
SELECT ROWNUM NO,  
       e.*  
FROM EMP e ;
```

--2)

```
SELECT ROWNUM NO,  
       e.*  
FROM EMP e  
ORDER BY ename;
```

NO	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COM	NO	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	CC
1	1	7369 SMITH	CLERK	7902	1980-12-17 오전 12:00:00	800	(null)	1	11	7876 ADAMS	CLERK	7788	1987-05-23 오전 12:00:00	1100	(nu
2	2	7499 ALLEN	SALESMAN	7698	1981-02-20 오전 12:00:00	1600		2	2	7499 ALLEN	SALESMAN	7698	1981-02-20 오전 12:00:00	1600	
3	3	7521 WARD	SALESMAN	7698	1981-02-22 오전 12:00:00	1250		3	6	7698 BLAKE	MANAGER	7839	1981-05-01 오전 12:00:00	2850	(nu
4	4	7566 JONES	MANAGER	7839	1981-04-02 오전 12:00:00	2975	(null)	4	7	7782 CLARK	MANAGER	7839	1981-06-09 오전 12:00:00	2450	(nu
5	5	7654 MARTIN	SALESMAN	7698	1981-09-28 오전 12:00:00	1250		5	13	7902 FORD	ANALYST	7566	1981-12-03 오전 12:00:00	3000	(nu
6	6	7698 BLAKE	MANAGER	7839	1981-05-01 오전 12:00:00	2850	(null)	6	12	7900 JAMES	CLERK	7698	1981-12-03 오전 12:00:00	950	(nu
7	7	7782 CLARK	MANAGER	7839	1981-06-09 오전 12:00:00	2450	(null)	7	4	7566 JONES	MANAGER	7839	1981-04-02 오전 12:00:00	2975	(nu
8	8	7788 SCOTT	ANALYST	7566	1987-04-19 오전 12:00:00	3000	(null)	8	9	7839 KING	PRESIDENT	(null)	1981-11-17 오전 12:00:00	5000	(nu
9	9	7839 KING	PRESIDENT	(null)	1981-11-17 오전 12:00:00	5000	(null)	9	5	7654 MARTIN	SALESMAN	7698	1981-09-28 오전 12:00:00	1250	
10	10	7844 TURNER	SALESMAN	7698	1981-09-08 오전 12:00:00	1500		10	14	7934 MILLER	CLERK	7782	1982-01-23 오전 12:00:00	1300	(nu
11	11	7876 ADAMS	CLERK	7788	1987-05-23 오전 12:00:00	1100	(null)	11	8	7788 SCOTT	ANALYST	7566	1987-04-19 오전 12:00:00	3000	(nu
12	12	7900 JAMES	CLERK	7698	1981-12-03 오전 12:00:00	950	(null)	12	1	7369 SMITH	CLERK	7902	1980-12-17 오전 12:00:00	800	(nu
13	13	7902 FORD	ANALYST	7566	1981-12-03 오전 12:00:00	3000	(null)	13	10	7844 TURNER	SALESMAN	7698	1981-09-08 오전 12:00:00	1500	
14	14	7934 MILLER	CLERK	7782	1982-01-23 오전 12:00:00	1300	(null)	14	3	7521 WARD	SALESMAN	7698	1981-02-22 오전 12:00:00	1250	

- 이정도만 알아두고 나머지는 서브쿼리를 다시 복습하고 알려드릴게요