

Introduction To ROWNUM ==> =====

* In Oracle , a ROWNUM is a pseudocolumn (not a real column) that is available in a query and indicates the row number in a RESULT SET retrieved by an SQL query

* For each row returned by a query, the ROWNUM pseudocolumn returns a number indicating the order in which Oracle selects rows from a table or set of joined rows.

* The first row selected has a ROWNUM of 1, the second has 2, and so on.

* We can use ROWNUM to limit the number of rows returned by a query, as in this example:

- SELECT * FROM emp WHERE ROWNUM <= 5;

WAQ to display the name and salary of 3 employees who earn more than 2000.

- select empno, ename, sal from emp where sal > 2000 and rownum <= 3;

EMPNO	ENAME	SAL
7566	JONES	2975
7698	BLACK	2850
7782	CLARK	2450

Top N Analysis ==> =====

* Top-N analysis or Top-N queries are useful in scenarios where the need is to display only the n top-most or the n bottommost records from a table based on a condition.

* For example, using Top-N analysis you can perform the following types of queries:

- Top three earners in the company.
- Four most recent recruits in the company.
- Top two sales reps who have sold the maximum number of products.
- Top three products that have had maximum sales in the last six months.

* Syntax :-

- SELECT <list_of_cols> FROM (your ordered query) alias_name WHERE rownum <= Rows_to_return

WAQ to display the name and salary of top 3 earners of the company.

- select ename, sal from (select ename, sal from emp order by sal desc) temp where rownum <= 3;

ENAME	SAL
KING	5000
SCOTT	3000
FORD	3000

WAQ to display the name and salary of lowest 3 earners of the company.

- select ename, sal from (select ename, sal from emp order by sal) temp where rownum <= 3;

ENAME	SAL
SMITH	800
JAMES	950
ADAMS	1100

WAQ to display the ename and hiredate of top 4 senior most employees of the company.

- select ename, hiredate from (select ename, hiredate from emp order by hiredate) temp where rownum <= 4;

ENAME	HIREDATE
SMITH	17-DEC-80
ALLEN	20-FEB-81
WARD	22-FEB-81
JONES	02-APR-81

WAQ to display name and salary of third highest earning employee of the company.

- select ename, sal from emp e1 where 2 = (select count (distinct sal) from emp e2 where e2.sal > e1.sal);

ENAME	SAL
JONES	2975