```
/*Option 1 using fetch option available only in 12c onwards but will not give correct result in
all cases*/
WITH ctel AS
  (
  SELECT salary
  FROM employee
  ORDER BY salary DESC
FETCH FIRST 2 ROWS ONLY
SELECT salary
FROM ctel
ORDER BY salary
Fetch First 1 Rows
Only
/*Execution Plan
______
Plan hash
value:
3552574730
______
| Id | Operation
                      | Name | Rows | Bytes | Cost (%CPU) | Ti
me
______
 0 | SELECT STATEMENT
                            1 39 5 (40) 00
:00:01 |
| * 1
VIEW
                   1 39 5 (40) 00
:00:01
| * 2 |
                       2 | 26 |
WINDOW SORT PUSHED RANK
                                     5 (40) 00
:00:01
3 |
VIEW
                      2 |
                              26
                                    4 (25) 00
:00:01
| * 4 |
VIEW
                      2
                              78 |
                                   4 (25) 00
:00:01
|* 5 |
                        2
                            6 |
WINDOW SORT PUSHED RANK
                                 4 (25) 00
:00:01
TABLE ACCESS FULL | EMPLOYEE | 2 | 6 | 3 (0) | 00
:00:01
______
```

Predicate Information (identified by operation id):

```
filter("from$_subquery$_004"."rowlimit_$$_rownumber"<=1)</pre>
filter(ROW NUMBER() OVER ( ORDER BY "SALARY") <= 1)</pre>
  4 -
filter("from$_subquery$_002"."rowlimit_$$_rownumber"<=2)</pre>
filter(ROW_NUMBER() OVER ( ORDER BY INTERNAL_FUNCTION("SALARY") DESC
) <= 2)
Statistics
            _____
        0
recursive calls
        0 db block gets
         7 consistent gets
         6 physical
reads
        0 redo size
       548 bytes sent via SQL*Net to client
       539 bytes
received via SQL*Net from client
         2 SQL*Net roundtrips to/from client
sorts (memory)
         0 sorts (disk)
         1 rows
processed
* /
/*Option 2 using tradiontal style
SELECT MAX(salary)
   FROM employee a
   WHERE 2-1 = (SELECT)
COUNT(DISTINCT salary)
                  FROM employee b WHERE b.salary > a.salary)
Execution Plan
Plan hash
value:
2852433624
| Id | Operation
                           | Name | Rows | Bytes | Cost (%CPU)|
Time
                                1 3 6 (0) 00:00:01
 | SELECT STATEMENT
   1 | SORT
                            1 | 3 |
AGGREGATE
                       FILTER
```

```
TABLE ACCESS FULL | EMPLOYEE | 2 | 6 |
   3 (0) | 00:00:01
   4 | SORT GROUP BY
                                    1 |
                                          3 |
  5 l
         TABLE ACCESS FULL EMPLOYEE 1 3 3 (0)
00:00:01
______
Predicate Information (identified by operation
id):
_____
  2 - filter( (SELECT COUNT(DISTINCT
"SALARY") FROM "EMPLOYEE" "B"
          WHERE
"B"."SALARY">:B1)=1)
  5 –
filter("B"."SALARY">:B1)
Statistics
       1 recursive calls
       0 db block gets
       24
consistent gets
      6 physical reads
       0 redo size
      553 bytes sent via
SQL*Net to client
      510 bytes received via SQL*Net from client
       2 SQL*Net
roundtrips to/from client
       3 sorts (memory)
        0 sorts (disk)
rows
processed
_____
/*Option 3 using dense_rank with distinct
WITH ctel AS(
   SELECT salary,
   DENSE_RANK() OVER(ORDER BY
Salary DESC) AS rn
   FROM EMPLOYEE
   SELECT DISTINCT salary
   FROM ctel
  WHERE
rn = 2
Execution Plan
```

```
hash value:
3548743365
| Id | Operation
                           | Name | Rows | Bytes | Cost (%CPU) | Time
0 | SELECT STATEMENT | 1 | 16 | 5 (40) | 00:0
0:01 |
  1 |
SORT UNIQUE NOSORT
                             | 1 | 16 | 5 (40)| 00:0
0:01
|* 2 | VIEW
              2 | 32 | 4 (25) | 00:0
0:01 |
|* 3 | WINDOW SORT
PUSHED RANK | 2 | 6 | 4 (25) | 00:0
0:01 |
  4 | TABLE ACCESS FULL
  | EMPLOYEE | 2 | 6 | 3 (0) | 00:0
0:01
edicate Information (identified by operation
id):
  2 - filter("RN"=2)
- filter(DENSE_RANK() OVER ( ORDER BY INTERNAL_FUNCTION("SALARY") DESC
) <= 2)
Statistics
       5
recursive calls
       0 db block gets
        9 consistent gets
       8 physical
reads
       0 redo size
      548 bytes sent via SQL*Net to client
      747 bytes
received via SQL*Net from client
        2 SQL*Net roundtrips to/from client
sorts (memory)
        0 sorts (disk)
        1 rows processed
```

/*Option 4 using dense_rank with aggregate function max

```
WITH ctel AS(
   SELECT salary,
   DENSE RANK() OVER(ORDER BY
Salary DESC) AS rn
   FROM EMPLOYEE
   SELECT MAX(salary)
   FROM ctel
   WHERE rn =
/*
Execution Plan
Plan hash
value:
12444449
| Id | Operation
                            | Name | Rows | Bytes | Cost (%CPU) | Time
0 | SELECT STATEMENT
                         | 1 | 26 | 4 (25) | 00:0
0:01
| 1 |
SORT AGGREGATE
                              1 26
   |* 2 | VIEW
                   2 | 52 | 4 (25) | 00:0
0:01
| * 3 |
      WINDOW SORT
                    2 | 6 | 4 (25) | 00:0
PUSHED RANK |
0:01
 4 TABLE ACCESS FULL
  | EMPLOYEE | 2 | 6 | 3 (0) | 00:0
-----
edicate Information (identified by operation
id):
  2 - filter("RN"=2)
- filter(DENSE_RANK() OVER ( ORDER BY INTERNAL_FUNCTION("SALARY") DESC
) <= 2)
Statistics
       64
recursive calls
```

```
0 db block gets
13 consistent gets
8 physical

reads

0 redo size
553 bytes sent via SQL*Net to client
524 bytes

received via SQL*Net from client
2 SQL*Net roundtrips to/from client
1

sorts (memory)
0 sorts (disk)
1 rows processed

*/
```