SQL

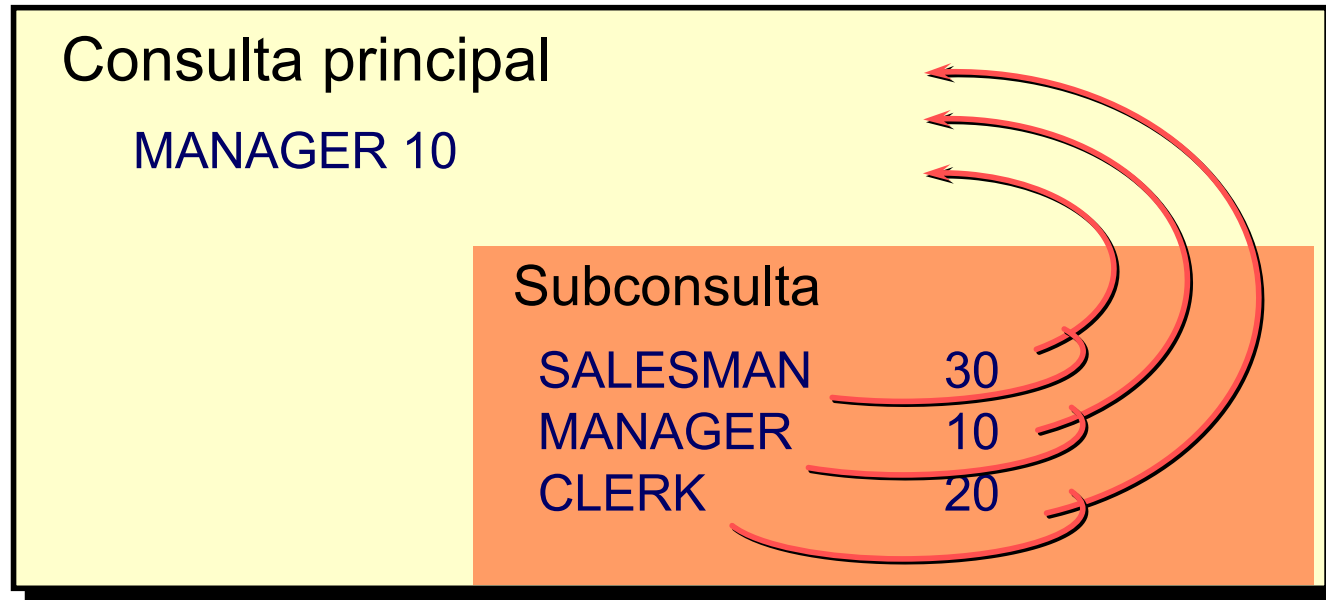## Subconsultas de múltiples columnas

Subconsultas de múltiples columnas

Consulta principal

MANAGER 10

Subconsulta

SALESMAN 30
MANAGER 10
CLERK 20

Consulta principal

MANAGER 10

Subconsulta

SALESMAN 30
MANAGER 10
CLERK 20

Subconsultas de múltiples columnas

```
SQL>  SELECT    ename, deptno, sal, comm
   2  FROM      emp
   3  WHERE     (sal, NVL(comm,-1)) IN
   4                        (SELECT sal, NVL(comm,-1)
   5                         FROM    emp
   6                         WHERE   deptno = 30);
```

De uno a uno

SAL	COMM
1600	300
1250	500
1250	1400
2850	
1500	0
950	
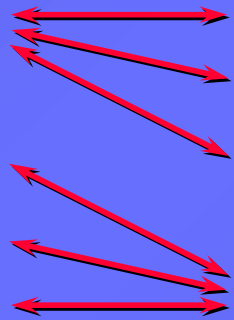
Subconsultas de múltiples columnas

```
SQL> SELECT    ename, deptno, sal, comm
  2  FROM      emp
  3  WHERE     sal IN          (SELECT  sal
  4                             FROM     emp
  5                             WHERE    deptno = 30)
  6  AND
  7            NVL(comm,-1) IN  (SELECT  NVL(comm,-1)
  8                             FROM     emp
  9                             WHERE    deptno = 30);
```

Con un conjunto de valores
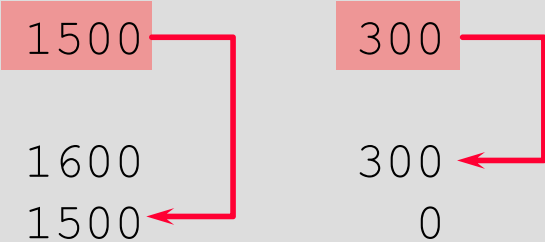
SAL	COMM
1600	300
1250	500
1250	1400
2850	
1500	0
950	

Subconsultas de múltiples columnas

- Suponga que modificamos el salario y la comisión para Clark:

```
ENAME                SAL         COMM
---------- ---------- ----------
...
CLARK             1500            300
...
ALLEN             1600            300
TURNER            1500              0
...
14 rows selected.
```

Subconsultas de múltiples columnas

```
SQL> SELECT    ename, deptno, sal, comm
  2  FROM      emp
  3  WHERE     (sal, NVL(comm,-1)) IN
  4                        (SELECT sal, NVL(comm,-1)
  5                         FROM    emp
  6                         WHERE   deptno = 30);
```

```
ENAME          DEPTNO        SAL       COMM
---------- ---------- --------- ---------
JAMES              30        950
WARD               30       1250        500
MARTIN             30       1250       1400
TURNER             30       1500          0
ALLEN              30       1600        300
BLAKE              30       2850

6 rows selected.
```

Subconsultas de múltiples columnas

```
SQL>  SELECT    ename,deptno, sal, comm
  2   FROM      emp
  3   WHERE     sal IN        (SELECT sal
  4                            FROM    emp
  5                            WHERE   deptno = 30)
  6   AND
  7             NVL(comm,-1) IN (SELECT NVL(comm,-1)
  8                              FROM    emp
  9                              WHERE   deptno = 30);
```

```
ENAME              DEPTNO        SAL        COMM
---------- --------- --------- ---------
JAMES                  30        950
BLAKE                  30       2850
TURNER                 30       1500           0
CLARK                  10       1500         300
...
7 rows selected.
```

Subconsulta con resultado nulo

```
SQL> SELECT    employee.ename
  2  FROM      emp employee
  3  WHERE     employee.empno NOT IN
  4                    (SELECT manager.mgr
  5                     FROM    emp manager);
no rows selected.
```

Subconsulta en la clausula FROM

```
SQL>  SELECT    a.ename, a.sal, a.deptno, b.salavg
  2   FROM      emp a, (SELECT     deptno, avg(sal) salavg
  3                     FROM       emp
  4                     GROUP BY deptno) b
  5   WHERE     a.deptno = b.deptno
  6   AND       a.sal > b.salavg;
```

```
ENAME             SAL      DEPTNO      SALAVG
---------- --------- --------- ----------
KING             5000          10  2916.6667
JONES            2975          20       2175
SCOTT            3000          20       2175
...
6 rows selected.
```