

Single Row Subquery in Oracle

Oracle Single Row Subquery

When a Subquery returns a single value is called a Single Row Subquery. In Single Row Subquery we can use operators such as = , < , > , <= , >=, !=.

1. Who is getting the first high salary from the Employee table?

Solution: SUBQUERY = OUTER + INNER

Step1: Inner Query.

```
SELECT MAX(SAL) FROM EMPLOYEE;
```

Step2: Outer query.

```
SELECT * FROM EMPLOYEE WHERE SAL= (INNER QUERY);
```

Step3: subquery= outer + inner.

```
SELECT * FROM EMPLOYEE WHERE SAL = (SELECT MAX(SAL) FROM EMPLOYEE);
```

2. Whose employee job is the same as the job of 'SMITH'?

```
SELECT * FROM EMPLOYEE WHERE JOB=(SELECT JOB FROM EMPLOYEE WHERE ENAME='SMITH');
```

3. Whose salary is more than the max salary of the job is "SALESMAN"?

```
SELECT * FROM EMPLOYEE WHERE SAL>(SELECT MAX(SAL) FROM EMPLOYEE WHERE JOB='SALESMAN');
```

4. Whose employee job is same as the job of "BLAKE" and who are earning Salary more than "BLAKE" salary?

```
SELECT * FROM EMPLOYEE WHERE JOB=(SELECT JOB FROM EMPLOYEE WHERE ENAME='BLAKE') AND SAL>(SELECT SAL FROM EMPLOYEE WHERE ENAME='BLAKE');
```

5. Display senior employee?

```
SELECT * FROM EMPLOYEE WHERE HIREDATE=(SELECT MIN(HIREDATE) FROM EMPLOYEE);
```

6. Find the second-highest Salary from the Employee table?

```
SELECT MAX(SAL) FROM EMPLOYEE WHERE SAL<(SELECT MAX(SAL) FROM EMPLOYEE);
```

7. Display employee details who are getting the Second highest Salary in the Employee table?

```
SELECT * FROM EMPLOYEE WHERE SAL=(SELECT MAX(SAL) FROM EMPLOYEE WHERE SAL< (SELECT MAX(SAL) FROM EMPLOYEE));
```

8. Display employee details who are getting 3rd highest Salary in Employee table?

```
SELECT * FROM EMPLOYEE WHERE SAL=
(SELECT MAX(SAL) FROM EMPLOYEE WHERE SAL<
(SELECT MAX(SAL) FROM EMPLOYEE WHERE SAL<
(SELECT MAX(SAL) FROM EMPLOYEE)));
```

9. Sum of salary of jobs if the sum of salary of jobs are more than the sum of salary of the job is 'clerk'?

```
SELECT JOB, SUM(SAL) FROM EMPLOYEE GROUP BY JOB HAVING SUM(SAL)>(SELECT SUM(SAL) FROM EMPLOYEE WHERE JOB='CLERK');
```

10. To update employee salary with max. salary of Employee table whose empno is 7900?

```
UPDATE EMPLOYEE SET SAL=(SELECT MAX(SAL) FROM EMPLOYEE) WHERE EMPNO=7900;
```

11. Delete employee details from the Employee table whose job is the same as the job of 'SCOTT'?

```
DELETE FROM EMPLOYEE WHERE JOB=(SELECT JOB FROM EMPLOYEE WHERE ENAME='SCOTT');
```