

## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

SQL> cl scr

```
SQL> SELECT Ename, Deptno, Sal,
2   (
3   SELECT SUM(Sal)
4   FROM Emp
5   ) OrgSalSum
6   FROM Emp;
```

ENAME	DEPTNO	SAL	ORGSALSUM
KING	10	5000	29025
BLAKE	30	2850	29025
CLARK	10	2450	29025
JONES	20	2975	29025
MARTIN	30	1250	29025
ALLEN	30	1600	29025
TURNER	30	1500	29025
JAMES	30	950	29025
WARD	30	1250	29025
FORD	20	3000	29025
SMITH	20	800	29025

ENAME	DEPTNO	SAL	ORGSALSUM
SCOTT	20	3000	29025
ADAMS	20	1100	29025
MILLER	10	1300	29025

14 rows selected.

SQL> ED  
Wrote file afiedt.buf

```
1  SELECT SUM(Sal), AVG(Sal)
2* FROM Emp
SQL> /
```

SUM(SAL)	AVG(SAL)
29025	2073.21429

SQL> ED  
Wrote file afiedt.buf

```
1  SELECT Ename, Deptno, Sal,
2   (
3   SELECT SUM(Sal), AVG(Sal)
4   FROM Emp
5   ) OrgSalSum
6* FROM Emp;
```

---

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---

```
SQL> /
FROM Emp;
      *
ERROR at line 6:
ORA-00911: invalid character
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Deptno, Sal,
2      (
3      SELECT SUM(Sal), AVG(Sal)
4      FROM Emp
5      ) OrgSalSum
6* FROM Emp
```

```
SQL> /
      SELECT SUM(Sal), AVG(Sal)
      *
```

```
ERROR at line 3:
ORA-00913: too many values
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT SUM(Sal), AVG(Sal)
2  FROM Emp
3* GROUP BY Deptno
SQL> /
```

SUM(SAL)	AVG(SAL)
8750	2916.66667
10875	2175
9400	1566.66667

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Deptno, Sal,
2
3  SELECT SUM(Sal)
4  FROM Emp
5  GROUP BY Deptno
6      ) OrgSalSum
7* FROM Emp
```

```
SQL> /
      SELECT SUM(Sal)
      *
```

```
ERROR at line 3:
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

ORA-01427: single-row subquery returns more than one row

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Deptno, Sal,
2      (
3          SELECT SUM(Sal)
4          FROM Emp
5          ) OrgSalSum,
6      (
7          SELECT AVG(Sal)
8          FROM Emp
9          ) OrgSalAvg
10* FROM Emp
SQL> /
```

ENAME	DEPTNO	SAL	ORGSALSUM	ORGSALAVG
KING	10	5000	29025	2073.21429
BLAKE	30	2850	29025	2073.21429
CLARK	10	2450	29025	2073.21429
JONES	20	2975	29025	2073.21429
MARTIN	30	1250	29025	2073.21429
ALLEN	30	1600	29025	2073.21429
TURNER	30	1500	29025	2073.21429
JAMES	30	950	29025	2073.21429
WARD	30	1250	29025	2073.21429
FORD	20	3000	29025	2073.21429
SMITH	20	800	29025	2073.21429

ENAME	DEPTNO	SAL	ORGSALSUM	ORGSALAVG
SCOTT	20	3000	29025	2073.21429
ADAMS	20	1100	29025	2073.21429
MILLER	10	1300	29025	2073.21429

14 rows selected.

SQL> cl scr

```
SQL> SELECT Deptno, AVG(Sal) SalAvg
2  FROM Emp
3  GROUP BY Deptno;
```

DEPTNO	SALAVG
10	2916.66667

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

20 2175  
30 1566.66667

```
SQL> SELECT Ename, OE.Deptno, Sal
  2 FROM Emp OE
  3 WHERE OE.Sal >
  4 (
  5 SELECT AVG(Sal)
  6 FROM Emp IE
  7 WHERE IE.Deptno = OE.Deptno
  8 )
  9
```

```
SQL> SELECT Ename, OE.Deptno, Sal
  2 FROM Emp OE;
```

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
CLARK	10	2450
JONES	20	2975
MARTIN	30	1250
ALLEN	30	1600
TURNER	30	1500
JAMES	30	950
WARD	30	1250
FORD	20	3000
SMITH	20	800

ENAME	DEPTNO	SAL
SCOTT	20	3000
ADAMS	20	1100
MILLER	10	1300

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, OE.Deptno, Sal
  2 FROM Emp OE
  3 WHERE OE.Sal >
  4 (
  5 SELECT AVG(Sal)
  6 FROM Emp IE
  7 WHERE IE.Deptno = OE.Deptno
  8 );
```

ENAME	DEPTNO	SAL
KING	10	5000

---

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```
.....
BLAKE          30          2850
JONES          20          2975
ALLEN          30          1600
FORD           20          3000
SCOTT          20          3000
```

6 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, OE.Deptno, Sal
2  FROM Emp OE,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) IE
8* WHERE OE.Sal > IE.SalAvg
9  /
```

ENAME	DEPTNO	SAL
KING	10	5000
KING	10	5000
KING	10	5000
FORD	20	3000
FORD	20	3000
FORD	20	3000
SCOTT	20	3000
SCOTT	20	3000
SCOTT	20	3000
JONES	20	2975
JONES	20	2975

ENAME	DEPTNO	SAL
JONES	20	2975
BLAKE	30	2850
BLAKE	30	2850
CLARK	10	2450
CLARK	10	2450
ALLEN	30	1600

17 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, OE.Deptno, Sal
2  FROM Emp OE,
```

-----

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---

```
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9* OE.Sal > IE.SalAvg
SQL> /
```

ENAME	DEPTNO	SAL
KING	10	5000
SCOTT	20	3000
FORD	20	3000
JONES	20	2975
ALLEN	30	1600
BLAKE	30	2850

6 rows selected.

```
SQL> SELECT Ename, OE.Deptno, Sal
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal)
6  FROM Emp IE
7  WHERE IE.Deptno = OE.Deptno
8  );
```

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
JONES	20	2975
ALLEN	30	1600
FORD	20	3000
SCOTT	20	3000

6 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, OE.Deptno, Sal
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal) SalAvg
6  FROM Emp IE
7  WHERE IE.Deptno = OE.Deptno
8* )
```

---

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---

SQL> /

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
JONES	20	2975
ALLEN	30	1600
FORD	20	3000
SCOTT	20	3000

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, OE.Deptno, Sal, IE.SalAvg
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal) SalAvg
6  FROM Emp IE
7  WHERE IE.Deptno = OE.Deptno
8* )
```

SQL> /

SELECT Ename, OE.Deptno, Sal, IE.SalAvg  
\*

ERROR at line 1:

ORA-00904: "IE"."SALAVG": invalid identifier

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, OE.Deptno, Sal, IE.SalAvg
2  FROM Emp OE
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) IE
8  WHERE OE.Deptno = IE.Deptno AND
9* OE.Sal > IE.SalAvg
```

SQL> /

ENAME	DEPTNO	SAL	SALAVG
KING	10	5000	2916.66667
SCOTT	20	3000	2175
FORD	20	3000	2175
JONES	20	2975	2175

---

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```
ALLEN          30          1600 1566.66667
BLAKE          30          2850 1566.66667
```

6 rows selected.

```
SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT Ename, OE.Deptno, Sal
   2  FROM Emp OE,
   3      (
   4      SELECT Deptno, AVG(Sal) SalAvg
   5      FROM Emp
   6      GROUP BY Deptno
   7      ) IE
   8  WHERE OE.Deptno = IE.Deptno AND
   9  OE.Sal > IE.SalAvg;
```

ENAME	DEPTNO	SAL
KING	10	5000
SCOTT	20	3000
FORD	20	3000
JONES	20	2975
ALLEN	30	1600
BLAKE	30	2850

6 rows selected.

### Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=8 Card=3 Bytes=177)
      )
1      0      HASH JOIN (Cost=8 Card=3 Bytes=177)
2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=462)
3      1      VIEW (Cost=4 Card=14 Bytes=364)
4      3      SORT (GROUP BY) (Cost=4 Card=14 Bytes=364)
5      4      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=364)
```

```
SQL> SELECT Ename, OE.Deptno, Sal
   2  FROM Emp OE
   3  WHERE OE.Sal >
   4      (
   5      SELECT AVG(Sal) SalAvg
   6      FROM Emp IE
```

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```
7 WHERE IE.Deptno = OE.Deptno
8 );
```

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
JONES	20	2975
ALLEN	30	1600
FORD	20	3000
SCOTT	20	3000

6 rows selected.

### Execution Plan

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=6 Card=3 Bytes=99)
1    0      FILTER
2    1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=33)

3    1      SORT (AGGREGATE)
4    3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=26)
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, OE.Job, Sal
2  FROM Emp OE
3  WHERE OE.Sal >
4  (
5  SELECT AVG(Sal) SalAvg
6  FROM Emp IE
7  WHERE IE.Job = OE.Job
8* )
SQL> /
```

ENAME	JOB	SAL
BLAKE	MANAGER	2850
JONES	MANAGER	2975
ALLEN	SALESMAN	1600
TURNER	SALESMAN	1500
ADAMS	CLERK	1100
MILLER	CLERK	1300

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---

6 rows selected.

### Execution Plan

---

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=6 Card=2 Bytes=52)
1      0      FILTER
2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=26)

3      1      SORT (AGGREGATE)
4      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=19)
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, OE.Job, Sal
2  FROM Emp OE
3  WHERE OE.Sal <
4  (
5  SELECT AVG(Sal) SalAvg
6  FROM Emp IE
7  WHERE IE.Job = OE.Job
8* )
```

SQL> /

ENAME	JOB	SAL
CLARK	MANAGER	2450
MARTIN	SALESMAN	1250
JAMES	CLERK	950
WARD	SALESMAN	1250
SMITH	CLERK	800

### Execution Plan

---

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=6 Card=2 Bytes=52)
1      0      FILTER
2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=26)

3      1      SORT (AGGREGATE)
4      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=19)
```

---

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---

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, OE.Job, Sal
2  FROM Emp OE
3  WHERE OE.Sal =
4  (
5  SELECT AVG(Sal) SalAvg
6  FROM Emp IE
7  WHERE IE.Job = OE.Job
8* )
SQL> /
```

ENAME	JOB	SAL
KING	PRESIDENT	5000
FORD	ANALYST	3000
SCOTT	ANALYST	3000

### Execution Plan

---

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=6 Card=6 Bytes=156
      )
1      0      FILTER
2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=26)
3      1      SORT (AGGREGATE)
4      3      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=19)
```

```
SQL> cl scr
```

```
SQL> SELECT Empno, Ename, E.Deptno, Sal, MGR
2  FROM Emp E
3  WHERE E.Sal >
4  (
5  SELECT M.Sal
6  FROM Emp M
7  WHERE M.Empno = E.MGR
8  );
```

EMPNO	ENAME	DEPTNO	SAL	MGR
-------	-------	--------	-----	-----

---

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```
7902 FORD          20          3000          7566
7788 SCOTT         20          3000          7566
```

### Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=4 Card=0 Bytes=3)
1      0      FILTER
2      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=1 Bytes=59)

3      1      TABLE ACCESS (BY INDEX ROWID) OF 'EMP' (TABLE) (Cost=1 Card=1 Bytes=26)

4      3      INDEX (UNIQUE SCAN) OF 'EMP_PRIMARY_KEY' (INDEX (UNIQUE)) (Cost=1 Card=1)
```

```
SQL> SELECT Ename, Sal
2  FROM Emp
3  WHERE Empno = 7566;
```

```
ENAME          SAL
-----
JONES          2975
```

### Execution Plan

```
-----
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=1 Card=1 Bytes=33)
1      0      TABLE ACCESS (BY INDEX ROWID) OF 'EMP' (TABLE) (Cost=1 Card=1 Bytes=33)

2      1      INDEX (UNIQUE SCAN) OF 'EMP_PRIMARY_KEY' (INDEX (UNIQUE)) (Cost=1 Card=1)
```

```
SQL> cl scr
```

```
SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr
```

```
SQL> --Get The Details of Departments in Which Employees Are Recruited
SQL> SELECT DISTINCT Deptno, Dname, Loc
2  FROM Dept
3  WHERE Deptno IN
4  (
```

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---

```
5  SELECT DISTINCT Deptno
6  FROM Emp
7  );
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Dname, Loc
2  FROM Dept
3  WHERE Deptno IN
4  (
5  SELECT DISTINCT Deptno
6  FROM Emp
7* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Dname, Loc
2  FROM Dept
3  WHERE Deptno IN
4  (
5  SELECT Deptno
6  FROM Emp
7  GROUP BY Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Dname, Loc
```

---

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---

```
2 FROM Dept
3 WHERE Deptno IN
4 (
5 SELECT UNIQUE Deptno
6 FROM Emp
7* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, Dname, Loc
2 FROM Dept
3 WHERE Deptno IN
4 (
5 SELECT Deptno
6 FROM Emp
7* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT DISTINCT D.Deptno, Dname, Loc
2 FROM Dept D, Emp E
3* WHERE D.Deptno = E.Deptno
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT UNIQUE D.Deptno, Dname, Loc
2 FROM Dept D, Emp E
```

---

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---

```
3* WHERE D.Deptno = E.Deptno
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT D.Deptno, Dname, Loc
2 FROM Dept D, Emp E
3 WHERE D.Deptno = E.Deptno
4* GROUP BY D.Deptno, Dname, Loc
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT D.Deptno, Dname, Loc
2 FROM Dept D
3 WHERE D.Deptno =
4 (
5 SELECT E.Deptno
6 FROM Emp E
7 WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

```
SELECT E.Deptno
*
```

```
ERROR at line 5:
ORA-01427: single-row subquery returns more than one row
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT D.Deptno, Dname, Loc
2 FROM Dept D
3 WHERE D.Deptno =
4 (
5 SELECT DISTINCT E.Deptno
6 FROM Emp E
```

---

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**Contact For Courses And Training in**

**Oracle Developer Suite 10g(D2K), Oracle Apps R12, Live Projects in SQL and PL/SQL, Data**

## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
7 WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT D.Deptno, Dname, Loc
2 FROM Dept D
3 WHERE D.Deptno =
4 (
5 SELECT UNIQUE E.Deptno
6 FROM Emp E
7 WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT D.Deptno, Dname, Loc
2 FROM Dept D
3 WHERE D.Deptno =
4 (
5 SELECT E.Deptno
6 FROM Emp E
7 WHERE E.Deptno = D.Deptno
8 GROUP BY E.Deptno
9* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO

```
SQL> ED
Wrote file afiedt.buf
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
1  SELECT D.Deptno, Dname, Loc
2  FROM Dept D
3  WHERE D.Deptno IN
4  (
5  SELECT E.Deptno
6  FROM Emp E
7  WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT D.Deptno, Dname, Loc
2  FROM Dept D
3  WHERE D.Deptno =ANY
4  (
5  SELECT E.Deptno
6  FROM Emp E
7  WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
30	SALES	CHICAGO
20	RESEARCH	DALLAS

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT D.Deptno, Dname, Loc
2  FROM Dept D
3  WHERE D.Deptno =SOME
4  (
5  SELECT E.Deptno
6  FROM Emp E
7  WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

DEPTNO	DNAME	LOC
--------	-------	-----

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
10 ACCOUNTING      NEW YORK
30 SALES            CHICAGO
20 RESEARCH         DALLAS
```

SQL> cl scr

```
SQL> SELECT Deptno, Dname
2  FROM   Dept D
3  WHERE  EXISTS
4  (
5    SELECT *
6    FROM Emp E
7    WHERE E.Deptno = D.Deptno
8  );
```

```
DEPTNO DNAME
-----
```

```
10 ACCOUNTING
30 SALES
20 RESEARCH
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Deptno, Dname
2  FROM   Dept D
3  WHERE  NOT EXISTS
4  (
5    SELECT *
6    FROM Emp E
7    WHERE E.Deptno = D.Deptno
8* )
SQL> /
```

```
DEPTNO DNAME
-----
```

```
40 OPERATIONS
```

SQL> SET AUTOTRACE ON EXPLAIN

```
SQL> SELECT Deptno, Dname
2  FROM   Dept D
3  WHERE  EXISTS
4  (
5    SELECT *
6    FROM Emp E
7    WHERE E.Deptno = D.Deptno
8  );
```

```
DEPTNO DNAME
-----
```

```
10 ACCOUNTING
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
30 SALES
20 RESEARCH
```

### Execution Plan

---

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=7 Card=3 Bytes=105)
      )

1      0      HASH JOIN (SEMI) (Cost=7 Card=3 Bytes=105)
2      1      TABLE ACCESS (FULL) OF 'DEPT' (TABLE) (Cost=3 Card=4 Bytes=88)

3      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=182)
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Dname
2  FROM   Dept D
3  WHERE  EXISTS
4         (
5         SELECT 125
6         FROM   Emp E
7         WHERE  E.Deptno = D.Deptno
8*        )
SQL> /
```

```
DEPTNO DNAME
-----
10 ACCOUNTING
30 SALES
20 RESEARCH
```

### Execution Plan

---

```
0      SELECT STATEMENT Optimizer=ALL_ROWS (Cost=7 Card=3 Bytes=105)
      )

1      0      HASH JOIN (SEMI) (Cost=7 Card=3 Bytes=105)
2      1      TABLE ACCESS (FULL) OF 'DEPT' (TABLE) (Cost=3 Card=4 Bytes=88)

3      1      TABLE ACCESS (FULL) OF 'EMP' (TABLE) (Cost=3 Card=14 Bytes=182)
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr
```

```
SQL> SELECT E.Ename
       2 FROM Emp E
       3 WHERE EXISTS
       4 (
       5  SELECT *
       6  FROM Emp E1
       7  WHERE E1.Empno = E.Mgr
       8  );
```

ENAME

-----  
BLAKE  
CLARK  
JONES  
MARTIN  
ALLEN  
TURNER  
JAMES  
WARD  
FORD  
SMITH  
SCOTT

ENAME

-----  
ADAMS  
MILLER

13 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
       1 SELECT E.Ename
       2 FROM Emp E
       3* WHERE MGR IS NOT NULL
SQL> /
```

ENAME

-----  
BLAKE  
CLARK  
JONES  
MARTIN  
ALLEN

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

TURNER  
JAMES  
WARD  
FORD  
SMITH  
SCOTT

ENAME

-----

ADAMS  
MILLER

13 rows selected.

SQL> ED  
Wrote file afiedt.buf

```
1  SELECT E.Ename
2  FROM Emp E
3  WHERE MGR IN
4  (
5  SELECT MGR
6  FROM Emp
7* )
SQL> /
```

ENAME

-----

JONES  
CLARK  
BLAKE  
WARD  
JAMES  
TURNER  
ALLEN  
MARTIN  
SCOTT  
FORD  
SMITH

ENAME

-----

ADAMS  
MILLER

13 rows selected.

```
SQL> SELECT E.Ename
2  FROM Emp E
3  WHERE NOT EXISTS
4  (
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Empno = E.Mgr
8  );
```

ENAME

-----

KING

```
SQL> SELECT E.Ename
2  FROM Emp E
3  WHERE EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Mgr = E.Empno
8  );
```

ENAME

-----

KING

BLAKE

JONES

FORD

SCOTT

CLARK

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename
2  FROM Emp E
3  WHERE NOT EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Mgr = E.Empno
8* )
```

SQL> /

ENAME

-----

TURNER

WARD

MARTIN

ALLEN

MILLER

SMITH

ADAMS

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

JAMES

8 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, Sal, Comm
2  FROM Emp E
3  WHERE EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Comm = E.Comm
8* )
```

SQL> /

ENAME	SAL	COMM
MARTIN	1250	1400
ALLEN	1600	300
TURNER	1500	0
WARD	1250	500

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, Sal, Comm
2  FROM Emp E
3  WHERE NOT EXISTS
4  (
5  SELECT *
6  FROM Emp E1
7  WHERE E1.Comm = E.Comm
8* )
```

SQL> /

ENAME	SAL	COMM
MILLER	1300	
ADAMS	1100	
SCOTT	3000	
SMITH	800	
FORD	3000	
JAMES	950	
JONES	2975	
CLARK	2450	
BLAKE	2850	
KING	5000	

10 rows selected.

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

SQL> SPOOL OFF

Oracle BY Sathish Yellanki (SkyEss)

---

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