

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> cl scr
```

```
SQL> SET VERIFY OFF
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job  
2 FROM Emp  
3 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB
FORD	7902	7566	ANALYST
SMITH	7369	7902	CLERK
SCOTT	7788	7566	ANALYST
ADAMS	7876	7788	CLERK
MARTIN	7654	7698	SALESMAN
ALLEN	7499	7698	SALESMAN
JAMES	7900	7698	CLERK
WARD	7521	7698	SALESMAN
TURNER	7844	7698	SALESMAN
MILLER	7934	7782	CLERK
ADAMS	7876	7788	CLERK

ENAME	EMPNO	MGR	JOB
BLAKE	7698	7839	MANAGER
MARTIN	7654	7698	SALESMAN
ALLEN	7499	7698	SALESMAN
JAMES	7900	7698	CLERK
WARD	7521	7698	SALESMAN
TURNER	7844	7698	SALESMAN
CLARK	7782	7839	MANAGER
MILLER	7934	7782	CLERK
JONES	7566	7839	MANAGER
FORD	7902	7566	ANALYST
SMITH	7369	7902	CLERK

ENAME	EMPNO	MGR	JOB
SCOTT	7788	7566	ANALYST
ADAMS	7876	7788	CLERK
SMITH	7369	7902	CLERK
KING	7839		PRESIDENT
BLAKE	7698	7839	MANAGER
MARTIN	7654	7698	SALESMAN
ALLEN	7499	7698	SALESMAN
JAMES	7900	7698	CLERK
WARD	7521	7698	SALESMAN
TURNER	7844	7698	SALESMAN
CLARK	7782	7839	MANAGER

ENAME	EMPNO	MGR	JOB
MILLER	7934	7782	CLERK
JONES	7566	7839	MANAGER
FORD	7902	7566	ANALYST

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```
SMITH          7369          7902 CLERK
SCOTT          7788          7566 ANALYST
ADAMS          7876          7788 CLERK
```

39 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job
 2 FROM Emp
 3 START WITH Job = 'PRESIDENT'
 4 CONNECT BY PRIOR Empno = MGR;
```

```
ENAME          EMPNO          MGR JOB
-----
KING            7839           PRESIDENT
BLAKE           7698          7839 MANAGER
MARTIN          7654          7698 SALESMAN
ALLEN           7499          7698 SALESMAN
TURNER          7844          7698 SALESMAN
JAMES           7900          7698 CLERK
WARD            7521          7698 SALESMAN
CLARK           7782          7839 MANAGER
MILLER          7934          7782 CLERK
JONES           7566          7839 MANAGER
FORD            7902          7566 ANALYST
```

```
ENAME          EMPNO          MGR JOB
-----
SMITH           7369          7902 CLERK
SCOTT           7788          7566 ANALYST
ADAMS           7876          7788 CLERK
```

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
 1 SELECT Ename, Empno, Mgr, Job
 2 FROM Emp
 3 START WITH Ename = 'KING'
 4* CONNECT BY PRIOR Empno = MGR
```

```
SQL> /
```

```
ENAME          EMPNO          MGR JOB
-----
KING            7839           PRESIDENT
BLAKE           7698          7839 MANAGER
MARTIN          7654          7698 SALESMAN
ALLEN           7499          7698 SALESMAN
TURNER          7844          7698 SALESMAN
JAMES           7900          7698 CLERK
WARD            7521          7698 SALESMAN
CLARK           7782          7839 MANAGER
MILLER          7934          7782 CLERK
JONES           7566          7839 MANAGER
```

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```
FORD          7902          7566 ANALYST
```

```
ENAME        EMPNO          MGR JOB
-----
SMITH         7369          7902 CLERK
SCOTT         7788          7566 ANALYST
ADAMS         7876          7788 CLERK
```

14 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job
2 FROM Emp;
```

```
ENAME        EMPNO          MGR JOB
-----
KING          7839           PRESIDENT
BLAKE         7698          7839 MANAGER
CLARK         7782          7839 MANAGER
JONES         7566          7839 MANAGER
MARTIN        7654          7698 SALESMAN
ALLEN         7499          7698 SALESMAN
TURNER        7844          7698 SALESMAN
JAMES         7900          7698 CLERK
WARD          7521          7698 SALESMAN
FORD          7902          7566 ANALYST
SMITH         7369          7902 CLERK
```

```
ENAME        EMPNO          MGR JOB
-----
SCOTT         7788          7566 ANALYST
ADAMS         7876          7788 CLERK
MILLER        7934          7782 CLERK
```

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Sal = 5000
4 CONNECT BY PRIOR Empno = MGR;
```

```
ENAME        EMPNO          MGR JOB          SAL
-----
KING          7839           PRESIDENT        5000
BLAKE         7698          7839 MANAGER        2850
MARTIN        7654          7698 SALESMAN        1250
ALLEN         7499          7698 SALESMAN        1600
TURNER        7844          7698 SALESMAN        1500
JAMES         7900          7698 CLERK           950
WARD          7521          7698 SALESMAN        1250
CLARK         7782          7839 MANAGER        2450
MILLER        7934          7782 CLERK          1300
JONES         7566          7839 MANAGER        2975
FORD          7902          7566 ANALYST        3000
```

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	EMPNO	MGR	JOB	SAL
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

14 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
 2  FROM Emp
 3  START WITH Sal = (SELECT MAX(Sal)
 4                      FROM Emp)
 5  CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000

ENAME	EMPNO	MGR	JOB	SAL
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

14 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
 2  FROM Emp
 3  START WITH Sal IN (SELECT Sal
 4                      FROM Emp
 5                      WHERE Job = 'ANALYST')
 6  CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
FORD	7902	7566	ANALYST	3000
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

SQL> SPOOL OFF

SQL> cl scr

SQL> SET VERIFY OFF

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
  2 FROM Emp
  3 START WITH Sal = (SELECT MAX(Sal)
  4
  5 FROM Emp
  6 WHERE Deptno = (SELECT Deptno
  7 FROM
  8 Dept
  9 WHERE Dname = 'ACCOUNTING')
  8 )
  9 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000

ENAME	EMPNO	MGR	JOB	SAL
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT Ename, Empno, Mgr, Job, Sal
  2 FROM Emp
  3 START WITH Sal = (SELECT MAX(Sal)
  4
  5 FROM Emp
  6 WHERE Deptno = (SELECT Deptno
  7 FROM
  8 Dept
  9 WHERE Dname = 'RESEARCH')
  8 )
  9* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
FORD	7902	7566	ANALYST	3000
SMITH	7369	7902	CLERK	800

Spool Generated For Class of Oracle By Satish K Yellanki

```
SCOTT          7788          7566 ANALYST          3000
ADAMS          7876          7788 CLERK           1100
```

SQL> ED

Wrote file afiedt.buf

```

1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Sal = (SELECT MAX(Sal)
4                    FROM Emp
5                    WHERE Deptno = (SELECT Deptno
6                                    FROM
7  Dept
8  WHERE Dname = 'SALES')
9* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250

6 rows selected.

SQL> cl scr

```

SQL> SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Ename = (SELECT Ename
4                    FROM Emp, SalGrade
5                    WHERE Emp.Sal BETWEEN SalGrade.LOSAL AND
6                                    AND grade = 5)
7  CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000

ENAME	EMPNO	MGR	JOB	SAL
-------	-------	-----	-----	-----

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```
-----  
SMITH          7369          7902 CLERK          800  
SCOTT          7788          7566 ANALYST        3000  
ADAMS          7876          7788 CLERK          1100
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Empno, MGR, Job  
2 FROM Emp  
3 START WITH Job = 'ANALYST'  
4 CONNECT BY PRIOR Empno = MGR;
```

```
ENAME          EMPNO          MGR JOB  
-----  
FORD           7902          7566 ANALYST  
SMITH          7369          7902 CLERK  
SCOTT          7788          7566 ANALYST  
ADAMS          7876          7788 CLERK
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, MGR, Job  
2 FROM Emp  
3 START WITH Ename = 'JONES'  
4* CONNECT BY PRIOR Empno = MGR  
SQL> /
```

```
ENAME          EMPNO          MGR JOB  
-----  
JONES          7566          7839 MANAGER  
FORD           7902          7566 ANALYST  
SMITH          7369          7902 CLERK  
SCOTT          7788          7566 ANALYST  
ADAMS          7876          7788 CLERK
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, MGR, Job  
2 FROM Emp  
3 START WITH Ename = 'JONES'  
4* CONNECT BY Empno = PRIOR MGR  
SQL> /
```

```
ENAME          EMPNO          MGR JOB  
-----  
JONES          7566          7839 MANAGER  
KING           7839          PRESIDENT
```

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, MGR, Job
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
2 FROM Emp
3 START WITH Job = 'ANALYST'
4* CONNECT BY Empno = PRIOR MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB
SCOTT	7788	7566	ANALYST
JONES	7566	7839	MANAGER
KING	7839		PRESIDENT
FORD	7902	7566	ANALYST
JONES	7566	7839	MANAGER
KING	7839		PRESIDENT

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5 /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000

ENAME	EMPNO	MGR	JOB	SAL
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

14 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5 AND Job = 'MANAGER';
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850

Spool Generated For Class of Oracle By Satish K Yellanki

```
CLARK          7782          7839 MANAGER          2450
JONES          7566          7839 MANAGER          2975
```

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

```
 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 WHERE Job = 'MANAGER'
 4 START WITH Ename = 'KING'
 5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975

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

```
 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 START WITH Ename = 'JONES'
 4* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

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

```
 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 START WITH Ename = 'BLAKE'
 4* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250

```
6 rows selected.
```

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'CLARK'
4* CONNECT BY PRIOR Empno = MGR
```

SQL> /

ENAME	EMPNO	MGR	JOB	SAL
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'JONES'
4 CONNECT BY PRIOR Empno = MGR AND
5* Job = 'MANAGER'
```

SQL> /

ENAME	EMPNO	MGR	JOB	SAL
JONES	7566	7839	MANAGER	2975

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5 AND Job = 'MANAGER';
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job = 'SALESMAN'
```

SQL> /

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> ED
Wrote file afiedt.buf

 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 START WITH Ename = 'KING'
 4 CONNECT BY PRIOR Empno = MGR
 5* AND Job = 'MANAGER' OR Job = 'SALESMAN'
SQL> /
ERROR:
ORA-01436: CONNECT BY loop in user data
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf

 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 START WITH Ename = 'KING'
 4 CONNECT BY PRIOR Empno = MGR
 5* AND Job = 'MANAGER' AND Job = 'SALESMAN'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000

```
SQL> ED
Wrote file afiedt.buf

 1 SELECT Ename, Empno, Mgr, Job, Sal
 2 FROM Emp
 3 START WITH Ename = 'KING'
 4 CONNECT BY PRIOR Empno = MGR
 5* AND (Job = 'MANAGER' OR Job = 'SALESMAN')
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975

8 rows selected.

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

Spool Generated For Class of Oracle By Satish K Yellanki

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job IN('MANAGER', 'SALESMAN')
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975

8 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5 AND Job <> 'SALESMAN';
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
JAMES	7900	7698	CLERK	950
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000
SMITH	7369	7902	CLERK	800
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100

10 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job <> 'CLERK'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
-------	-------	-----	-----	-----

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KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000
SCOTT	7788	7566	ANALYST	3000

10 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job <> 'ANALYST'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975

10 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 WHERE Job <> 'ANALYST'
4 START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950

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WARD	7521	7698	SALESMAN	1250
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300
JONES	7566	7839	MANAGER	2975
SMITH	7369	7902	CLERK	800

ENAME	EMPNO	MGR	JOB	SAL
-----	-----	-----	-----	-----
ADAMS	7876	7788	CLERK	1100

12 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
  2 FROM Emp
  3 START WITH Ename = 'KING'
  4 CONNECT BY PRIOR Empno = MGR
  5 AND Job <> 'SALESMAN'
  6 AND Sal > 1500;
```

ENAME	EMPNO	MGR	JOB	SAL
-----	-----	-----	-----	-----
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000
SCOTT	7788	7566	ANALYST	3000

6 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
  2 FROM Emp
  3 WHERE Job <> 'SALESMAN' AND Sal > 1500
  4 START WITH Ename = 'KING'
  5 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
-----	-----	-----	-----	-----
KING	7839		PRESIDENT	5000
BLAKE	7698	7839	MANAGER	2850
CLARK	7782	7839	MANAGER	2450
JONES	7566	7839	MANAGER	2975
FORD	7902	7566	ANALYST	3000
SCOTT	7788	7566	ANALYST	3000

6 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
  2 FROM Emp
  3 WHERE Deptno = (SELECT Deptno
  4
  5 FROM Dept
  6 WHERE DName = 'SALES')
  7 START WITH Ename = 'KING'
  8 CONNECT BY PRIOR Empno = MGR;
```

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
WARD	7521	7698	SALESMAN	1250

6 rows selected.

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
  2 ROUND(SalAvg, 2) SalAvg
  3 FROM Emp E, (SELECT Deptno, AVG(Sal) SalAvg
  4             FROM Emp
  5             GROUP BY Deptno) E1
  6 WHERE E.Deptno = E1.Deptno
  7 START WITH Ename = 'KING'
  8 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
KING	7839		PRESIDENT	5000	2916.67
CLARK	7782	7839	MANAGER	2450	2916.67
MILLER	7934	7782	CLERK	1300	2916.67
JONES	7566	7839	MANAGER	2975	2175
SCOTT	7788	7566	ANALYST	3000	2175
ADAMS	7876	7788	CLERK	1100	2175
FORD	7902	7566	ANALYST	3000	2175
SMITH	7369	7902	CLERK	800	2175
BLAKE	7698	7839	MANAGER	2850	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67
JAMES	7900	7698	CLERK	950	1566.67

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
TURNER	7844	7698	SALESMAN	1500	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67

14 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
  2 ROUND(SalAvg, 2) SalAvg
  3 FROM Emp E, (SELECT Deptno, AVG(Sal) SalAvg
  4             FROM Emp
  5             GROUP BY Deptno) E1
  6 WHERE E.Deptno = E1.Deptno AND
  7 E1.Deptno = (SELECT Deptno
  8             FROM Dept
  9             WHERE Dname = 'SALES')
 10 START WITH Ename = 'KING'
 11 CONNECT BY PRIOR Empno = MGR;
```

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
BLAKE	7698	7839	MANAGER	2850	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67
JAMES	7900	7698	CLERK	950	1566.67
TURNER	7844	7698	SALESMAN	1500	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67

6 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal, ROUND(SalAvg, 2) SalAvg, ROUND(((SELECT
AVG(Sal) FROM Emp) - SalAvg), 2) AvgDif
  2 FROM Emp E, (SELECT Deptno, AVG(Sal) SalAvg
  3 FROM Emp
  4 GROUP BY Deptno) E1
  5 WHERE E.Deptno = E1.Deptno AND
  6 E1.Deptno = (SELECT Deptno
  7 FROM Dept
  8 WHERE Dname = 'SALES')
  9 START WITH Ename = 'KING'
 10 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG	AVGDIF
BLAKE	7698	7839	MANAGER	2850	1566.67	506.55
WARD	7521	7698	SALESMAN	1250	1566.67	506.55
JAMES	7900	7698	CLERK	950	1566.67	506.55
TURNER	7844	7698	SALESMAN	1500	1566.67	506.55
ALLEN	7499	7698	SALESMAN	1600	1566.67	506.55
MARTIN	7654	7698	SALESMAN	1250	1566.67	506.55

6 rows selected.

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

```
  1 SELECT Ename, Empno, Mgr, Job, Sal, ROUND(SalAvg, 2) SalAvg, ROUND(((SELECT
AVG(Sal) FROM Emp) - SalAvg), 2) AvgDif
  2 FROM Emp E, (SELECT Deptno, AVG(Sal) SalAvg
  3 FROM Emp
  4 GROUP BY Deptno) E1
  5 WHERE E.Deptno = E1.Deptno AND
  6 E1.Deptno = (SELECT Deptno
  7 FROM Dept
  8 WHERE Dname = 'SALES')
  9 START WITH Ename = (
 10 SELECT Ename
 11 FROM Emp
 12 WHERE Sal = (
 13 SELECT
 14 MAX(Sal)
 15 FROM Emp
 16 WHERE Deptno = (
 17 SELECT Deptno
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
18          FROM Dept
19          WHERE Dname = 'ACCOUNTING'
20          )
21      )
22  )
23* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG	AVGDIF
BLAKE	7698	7839	MANAGER	2850	1566.67	506.55
WARD	7521	7698	SALESMAN	1250	1566.67	506.55
JAMES	7900	7698	CLERK	950	1566.67	506.55
TURNER	7844	7698	SALESMAN	1500	1566.67	506.55
ALLEN	7499	7698	SALESMAN	1600	1566.67	506.55
MARTIN	7654	7698	SALESMAN	1250	1566.67	506.55

6 rows selected.

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

```
1  SELECT Ename, Empno, Mgr, Job, Sal, ROUND(SalAvg, 2) SalAvg, ROUND(((SELECT
2  AVG(Sal) FROM Emp) - SalAvg), 2) AvgDif
3  FROM Emp E, (SELECT Deptno, AVG(Sal) SalAvg
4  FROM Emp
5  GROUP BY Deptno) E1
6  WHERE E.Deptno = E1.Deptno AND
7  E1.Deptno = (SELECT Deptno
8  FROM Dept
9  WHERE Dname = 'SALES')
10 START WITH Ename = (
11     SELECT Ename
12     FROM Emp
13     WHERE Sal = (
14         SELECT
15         MAX(Sal)
16         FROM Emp
17         WHERE Deptno = (
18             SELECT Deptno
19             FROM Dept
20             WHERE Dname = 'ACCOUNTING'
21         )
22     )
23* CONNECT BY PRIOR Empno = MGR
```

```
SQL> SPOOL OFF
SQL> cl scr
```

```
SQL> SET VERIFY OFF
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Job,
2  CONNECT_BY_ROOT(Ename) Boss
3  FROM Emp
4  START WITH Ename = 'KING'
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
5 CONNECT BY PRIOR Empno = MGR;
```

ENAME	SAL	JOB	BOSS
KING	5000	PRESIDENT	KING
BLAKE	2850	MANAGER	KING
MARTIN	1250	SALESMAN	KING
ALLEN	1600	SALESMAN	KING
TURNER	1500	SALESMAN	KING
JAMES	950	CLERK	KING
WARD	1250	SALESMAN	KING
CLARK	2450	MANAGER	KING
MILLER	1300	CLERK	KING
JONES	2975	MANAGER	KING
FORD	3000	ANALYST	KING

ENAME	SAL	JOB	BOSS
SMITH	800	CLERK	KING
SCOTT	3000	ANALYST	KING
ADAMS	1100	CLERK	KING

14 rows selected.

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT Ename, Sal, Job,  
2 CONNECT_BY_ROOT(Job) BossJob  
3 FROM Emp  
4 START WITH Ename = 'KING'  
5* CONNECT BY PRIOR Empno = MGR
```

```
SQL> /
```

ENAME	SAL	JOB	BOSSJOB
KING	5000	PRESIDENT	PRESIDENT
BLAKE	2850	MANAGER	PRESIDENT
MARTIN	1250	SALESMAN	PRESIDENT
ALLEN	1600	SALESMAN	PRESIDENT
TURNER	1500	SALESMAN	PRESIDENT
JAMES	950	CLERK	PRESIDENT
WARD	1250	SALESMAN	PRESIDENT
CLARK	2450	MANAGER	PRESIDENT
MILLER	1300	CLERK	PRESIDENT
JONES	2975	MANAGER	PRESIDENT
FORD	3000	ANALYST	PRESIDENT

ENAME	SAL	JOB	BOSSJOB
SMITH	800	CLERK	PRESIDENT
SCOTT	3000	ANALYST	PRESIDENT
ADAMS	1100	CLERK	PRESIDENT

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Job,
2 CONNECT_BY_ROOT(Sal) - Sal DiffBossEmpSal
3 FROM Emp
4 START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
```

SQL> /

ENAME	SAL	JOB	DIFFBOSSEMPAL
KING	5000	PRESIDENT	0
BLAKE	2850	MANAGER	2150
MARTIN	1250	SALESMAN	3750
ALLEN	1600	SALESMAN	3400
TURNER	1500	SALESMAN	3500
JAMES	950	CLERK	4050
WARD	1250	SALESMAN	3750
CLARK	2450	MANAGER	2550
MILLER	1300	CLERK	3700
JONES	2975	MANAGER	2025
FORD	3000	ANALYST	2000

ENAME	SAL	JOB	DIFFBOSSEMPAL
SMITH	800	CLERK	4200
SCOTT	3000	ANALYST	2000
ADAMS	1100	CLERK	3900

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Job, Sal EmpSal,
2 CONNECT_BY_ROOT(Sal) BossSal,
3 CONNECT_BY_ROOT(Sal) - Sal DiffBossEmpSal
4 FROM Emp
5 START WITH Ename = 'KING'
6* CONNECT BY PRIOR Empno = MGR
```

SQL> /

ENAME	JOB	EMPSAL	BOSSAL	DIFFBOSSEMPAL
KING	PRESIDENT	5000	5000	0
BLAKE	MANAGER	2850	5000	2150
MARTIN	SALESMAN	1250	5000	3750
ALLEN	SALESMAN	1600	5000	3400
TURNER	SALESMAN	1500	5000	3500
JAMES	CLERK	950	5000	4050
WARD	SALESMAN	1250	5000	3750
CLARK	MANAGER	2450	5000	2550
MILLER	CLERK	1300	5000	3700
JONES	MANAGER	2975	5000	2025
FORD	ANALYST	3000	5000	2000

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	JOB	EMPSAL	BOSSSAL	DIFFBOSSEMP
SMITH	CLERK	800	5000	4200
SCOTT	ANALYST	3000	5000	2000
ADAMS	CLERK	1100	5000	3900

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Job,
2 CONNECT_BY_ROOT(Ename) BossName
3 FROM Emp
4 START WITH Ename = 'KING'
5* CONNECT BY Empno = PRIOR MGR
```

SQL> /

ENAME	JOB	BOSSNAME
KING	PRESIDENT	KING

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Job,
2 CONNECT_BY_ROOT(Ename) BossName
3 FROM Emp
4 START WITH Job = 'ANALYST'
5* CONNECT BY Empno = PRIOR MGR
```

SQL> /

ENAME	JOB	BOSSNAME
SCOTT	ANALYST	SCOTT
JONES	MANAGER	SCOTT
KING	PRESIDENT	SCOTT
FORD	ANALYST	FORD
JONES	MANAGER	FORD
KING	PRESIDENT	FORD

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Job,
2 CONNECT_BY_ROOT(Ename) BossName
3 FROM Emp
4 START WITH Empno = 7839
5* CONNECT BY PRIOR Empno = MGR
```

SQL> /

ENAME	JOB	BOSSNAME
-------	-----	----------

Spool Generated For Class of Oracle By Satish K Yellanki

KING	PRESIDENT	KING
BLAKE	MANAGER	KING
MARTIN	SALESMAN	KING
ALLEN	SALESMAN	KING
TURNER	SALESMAN	KING
JAMES	CLERK	KING
WARD	SALESMAN	KING
CLARK	MANAGER	KING
MILLER	CLERK	KING
JONES	MANAGER	KING
FORD	ANALYST	KING

ENAME	JOB	BOSSNAME
-----	-----	-----
SMITH	CLERK	KING
SCOTT	ANALYST	KING
ADAMS	CLERK	KING

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Job,
2  CONNECT_BY_ROOT(Ename) BossName
3  FROM Emp
4  START WITH MGR = 7839
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	JOB	BOSSNAME
-----	-----	-----
BLAKE	MANAGER	BLAKE
MARTIN	SALESMAN	BLAKE
ALLEN	SALESMAN	BLAKE
TURNER	SALESMAN	BLAKE
JAMES	CLERK	BLAKE
WARD	SALESMAN	BLAKE
CLARK	MANAGER	CLARK
MILLER	CLERK	CLARK
JONES	MANAGER	JONES
FORD	ANALYST	JONES
SMITH	CLERK	JONES

ENAME	JOB	BOSSNAME
-----	-----	-----
SCOTT	ANALYST	JONES
ADAMS	CLERK	JONES

13 rows selected.

SQL> cl scr

```
SQL> SELECT ENAME Name, HireDate,
2  CONNECT_BY_ROOT Ename Boss,
3  CONNECT_BY_ROOT HireDate BossHire,
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
4 ROUND(CONNECT_BY_ROOT HireDate - HireDate) Days
5 FROM EMP
6 START WITH Job = 'PRESIDENT'
7 CONNECT BY PRIOR EMPNO = MGR;
```

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
KING	17-NOV-81	KING	17-NOV-81	0
BLAKE	01-MAY-81	KING	17-NOV-81	200
MARTIN	28-SEP-81	KING	17-NOV-81	50
ALLEN	20-FEB-81	KING	17-NOV-81	270
TURNER	08-SEP-81	KING	17-NOV-81	70
JAMES	03-DEC-81	KING	17-NOV-81	-16
WARD	22-FEB-81	KING	17-NOV-81	268
CLARK	09-JUN-81	KING	17-NOV-81	161
MILLER	23-JAN-82	KING	17-NOV-81	-67
JONES	02-APR-81	KING	17-NOV-81	229
FORD	03-DEC-81	KING	17-NOV-81	-16

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
SMITH	17-DEC-80	KING	17-NOV-81	335
SCOTT	09-DEC-82	KING	17-NOV-81	-387
ADAMS	12-JAN-83	KING	17-NOV-81	-421

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT ENAME Name, HireDate,
2 CONNECT_BY_ROOT Ename Boss,
3 CONNECT_BY_ROOT HireDate BossHire,
4 ROUND(CONNECT_BY_ROOT HireDate - HireDate) Days
5 FROM EMP
6 WHERE
7 ROUND(CONNECT_BY_ROOT HireDate - HireDate) = &GVal
8 START WITH Job = 'PRESIDENT'
9* CONNECT BY PRIOR EMPNO = MGR
```

SQL> /

Enter value for gval: 1

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1 SELECT ENAME Name, HireDate,
2 CONNECT_BY_ROOT Ename Boss,
3 CONNECT_BY_ROOT HireDate BossHire,
4 ROUND(CONNECT_BY_ROOT HireDate - HireDate) Days
5 FROM EMP
6 WHERE
7 SIGN(ROUND(CONNECT_BY_ROOT HireDate - HireDate)) = &GVal
8 START WITH Job = 'PRESIDENT'
9* CONNECT BY PRIOR EMPNO = MGR
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> /  
Enter value for gval: 1
```

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
BLAKE	01-MAY-81	KING	17-NOV-81	200
MARTIN	28-SEP-81	KING	17-NOV-81	50
ALLEN	20-FEB-81	KING	17-NOV-81	270
TURNER	08-SEP-81	KING	17-NOV-81	70
WARD	22-FEB-81	KING	17-NOV-81	268
CLARK	09-JUN-81	KING	17-NOV-81	161
JONES	02-APR-81	KING	17-NOV-81	229
SMITH	17-DEC-80	KING	17-NOV-81	335

8 rows selected.

```
SQL> /  
Enter value for gval: -1
```

NAME	HIREDATE	BOSS	BOSSHIRE	DAYS
JAMES	03-DEC-81	KING	17-NOV-81	-16
MILLER	23-JAN-82	KING	17-NOV-81	-67
FORD	03-DEC-81	KING	17-NOV-81	-16
SCOTT	09-DEC-82	KING	17-NOV-81	-387
ADAMS	12-JAN-83	KING	17-NOV-81	-421

```
SQL> cl cr  
SP2-0158: unknown CLEAR option "cr"  
SQL> cl scr
```

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

```
1 SELECT ENAME Name, HireDate  
2 FROM EMP  
3 WHERE  
4 START WITH Job = 'PRESIDENT'  
5* CONNECT BY PRIOR EMPNO = MGR
```

```
SQL> /  
START WITH Job = 'PRESIDENT'  
*  
ERROR at line 4:  
ORA-00936: missing expression
```

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

```
1 SELECT ENAME Name, HireDate  
2 FROM EMP  
3 START WITH Job = 'PRESIDENT'  
4* CONNECT BY PRIOR EMPNO = MGR  
SQL> /
```

```
NAME HIREDATE
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
-----  
KING      17-NOV-81  
BLAKE     01-MAY-81  
MARTIN    28-SEP-81  
ALLEN     20-FEB-81  
TURNER    08-SEP-81  
JAMES     03-DEC-81  
WARD      22-FEB-81  
CLARK     09-JUN-81  
MILLER    23-JAN-82  
JONES     02-APR-81  
FORD      03-DEC-81
```

```
NAME      HIREDATE  
-----  
SMITH     17-DEC-80  
SCOTT     09-DEC-82  
ADAMS     12-JAN-83
```

14 rows selected.

SQL> cl scr

```
SQL> COLUMN Path FORMAT A35  
SQL> SELECT Ename,  
2  SYS_CONNECT_BY_PATH(Ename, '/') "Path"  
3  FROM Emp  
4  START WITH Ename = 'KING'  
5  CONNECT BY PRIOR Empno = MGR;
```

```
ENAME      Path  
-----  
KING       /KING  
BLAKE      /KING/BLAKE  
MARTIN     /KING/BLAKE/MARTIN  
ALLEN      /KING/BLAKE/ALLEN  
TURNER     /KING/BLAKE/TURNER  
JAMES      /KING/BLAKE/JAMES  
WARD       /KING/BLAKE/WARD  
CLARK      /KING/CLARK  
MILLER     /KING/CLARK/MILLER  
JONES      /KING/JONES  
FORD       /KING/JONES/FORD
```

```
ENAME      Path  
-----  
SMITH      /KING/JONES/FORD/SMITH  
SCOTT      /KING/JONES/SCOTT  
ADAMS      /KING/JONES/SCOTT/ADAMS
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename,
```


Spool Generated For Class of Oracle By Satish K Yellanki

```
2 SYS_CONNECT_BY_PATH(ENAME, '>') "Path"
3 FROM Emp
4 START WITH ENAME = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	Path
KING	=>KING
BLAKE	=>KING=>BLAKE
MARTIN	=>KING=>BLAKE=>MARTIN
ALLEN	=>KING=>BLAKE=>ALLEN
TURNER	=>KING=>BLAKE=>TURNER
JAMES	=>KING=>BLAKE=>JAMES
WARD	=>KING=>BLAKE=>WARD
CLARK	=>KING=>CLARK
MILLER	=>KING=>CLARK=>MILLER
JONES	=>KING=>JONES
FORD	=>KING=>JONES=>FORD

ENAME	Path
SMITH	=>KING=>JONES=>FORD=>SMITH
SCOTT	=>KING=>JONES=>SCOTT
ADAMS	=>KING=>JONES=>SCOTT=>ADAMS

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Empno, ENAME, MGR
2 FROM Emp;
```

EMPNO	ENAME	MGR
7839	KING	
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902

EMPNO	ENAME	MGR
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

```
SQL> UPDATE Emp
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
2 SET MGR = 7566
3 WHERE Empno = 7839;
```

1 row updated.

```
SQL> SELECT Empno, Ename, MGR
2 FROM Emp;
```

EMPNO	ENAME	MGR
7839	KING	7566
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902

EMPNO	ENAME	MGR
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 SELECT Empno, Ename, MGR
2 FROM Emp
3 START WITH Ename = 'KING'
4* CONNECT BY PRIOR Empno = MGR
```

```
SQL> /
```

ERROR:

ORA-01436: CONNECT BY loop in user data

no rows selected

```
SQL> SELECT Ename,
2 SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3 FROM Emp
4 START WITH Ename = 'KING'
5 CONNECT BY NOCYCLE PRIOR Empno = MGR;
```

ENAME

SalPath

KING

Spool Generated For Class of Oracle By Satish K Yellanki

/5000

BLAKE

/5000/2850

MARTIN

/5000/2850/1250

ENAME

SalPath

ALLEN

/5000/2850/1600

TURNER

/5000/2850/1500

JAMES

/5000/2850/950

ENAME

SalPath

WARD

/5000/2850/1250

CLARK

/5000/2450

MILLER

/5000/2450/1300

ENAME

SalPath

JONES

/5000/2975

FORD

/5000/2975/3000

SMITH

/5000/2975/3000/800

ENAME

SalPath

SCOTT

Spool Generated For Class of Oracle By Satish K Yellanki

/5000/2975/3000

ADAMS

/5000/2975/3000/1100

14 rows selected.

SQL> COLUMN "SalPath" FORMAT A25

SQL> /

ENAME	SalPath
KING	/5000
BLAKE	/5000/2850
MARTIN	/5000/2850/1250
ALLEN	/5000/2850/1600
TURNER	/5000/2850/1500
JAMES	/5000/2850/950
WARD	/5000/2850/1250
CLARK	/5000/2450
MILLER	/5000/2450/1300
JONES	/5000/2975
FORD	/5000/2975/3000

ENAME	SalPath
SMITH	/5000/2975/3000/800
SCOTT	/5000/2975/3000
ADAMS	/5000/2975/3000/1100

14 rows selected.

SQL> cl scr

SQL> ROLLBACK

2 /

Rollback complete.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3 FROM Emp
4 START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR;
```

SQL> /

CONNECT BY PRIOR Empno = MGR;

*

ERROR at line 5:

ORA-00911: invalid character

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3 FROM Emp
4 START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	SalPath
KING	/5000
BLAKE	/5000/2850
MARTIN	/5000/2850/1250
ALLEN	/5000/2850/1600
TURNER	/5000/2850/1500
JAMES	/5000/2850/950
WARD	/5000/2850/1250
CLARK	/5000/2450
MILLER	/5000/2450/1300
JONES	/5000/2975
FORD	/5000/2975/3000

ENAME	SalPath
SMITH	/5000/2975/3000/800
SCOTT	/5000/2975/3000
ADAMS	/5000/2975/3000/1100

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename,
2 SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
3 FROM Emp
4 START WITH Ename = 'KING'
5 CONNECT BY PRIOR Empno = MGR
6* ORDER BY Sal
SQL> /
```

ENAME	SalPath
SMITH	/5000/2975/3000/800
JAMES	/5000/2850/950
ADAMS	/5000/2975/3000/1100
MARTIN	/5000/2850/1250
WARD	/5000/2850/1250
MILLER	/5000/2450/1300
TURNER	/5000/2850/1500
ALLEN	/5000/2850/1600
CLARK	/5000/2450
BLAKE	/5000/2850

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JONES /5000/2975

ENAME SalPath

```
-----  
FORD /5000/2975/3000  
SCOTT /5000/2975/3000  
KING /5000
```

14 rows selected.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Job  
2 FROM Emp  
3 START WITH Ename = 'KING'  
4* CONNECT BY PRIOR Empno = MGR  
SQL> /
```

```
ENAME SAL JOB  
-----  
KING 5000 PRESIDENT  
BLAKE 2850 MANAGER  
MARTIN 1250 SALESMAN  
ALLEN 1600 SALESMAN  
TURNER 1500 SALESMAN  
JAMES 950 CLERK  
WARD 1250 SALESMAN  
CLARK 2450 MANAGER  
MILLER 1300 CLERK  
JONES 2975 MANAGER  
FORD 3000 ANALYST
```

```
ENAME SAL JOB  
-----  
SMITH 800 CLERK  
SCOTT 3000 ANALYST  
ADAMS 1100 CLERK
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Job  
2 FROM Emp  
3 START WITH Ename = 'KING'  
4 CONNECT BY PRIOR Empno = MGR  
5* ORDER SIBLINGS BY Sal  
SQL> /
```

```
ENAME SAL JOB  
-----  
KING 5000 PRESIDENT
```

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CLARK	2450	MANAGER
MILLER	1300	CLERK
BLAKE	2850	MANAGER
JAMES	950	CLERK
MARTIN	1250	SALESMAN
WARD	1250	SALESMAN
TURNER	1500	SALESMAN
ALLEN	1600	SALESMAN
JONES	2975	MANAGER
FORD	3000	ANALYST

ENAME	SAL	JOB
-----	-----	-----
SMITH	800	CLERK
SCOTT	3000	ANALYST
ADAMS	1100	CLERK

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Job
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* ORDER SIBLINGS BY Ename
SQL> /
```

ENAME	SAL	JOB
-----	-----	-----
KING	5000	PRESIDENT
BLAKE	2850	MANAGER
ALLEN	1600	SALESMAN
JAMES	950	CLERK
MARTIN	1250	SALESMAN
TURNER	1500	SALESMAN
WARD	1250	SALESMAN
CLARK	2450	MANAGER
MILLER	1300	CLERK
JONES	2975	MANAGER
FORD	3000	ANALYST

ENAME	SAL	JOB
-----	-----	-----
SMITH	800	CLERK
SCOTT	3000	ANALYST
ADAMS	1100	CLERK

14 rows selected.

SQL> SPOOL OFF