

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT ROWNUM, Empno, Ename, Job
2 FROM Emp;

ROWNUM	EMPNO	ENAME	JOB
1	7839	KING	PRESIDENT
2	7698	BLAKE	MANAGER
3	7782	CLARK	MANAGER
4	7566	JONES	MANAGER
5	7654	MARTIN	SALESMAN
6	7499	ALLEN	SALESMAN
7	7844	TURNER	SALESMAN
8	7900	JAMES	CLERK
9	7521	WARD	SALESMAN
10	7902	FORD	ANALYST
11	7369	SMITH	CLERK
12	7788	SCOTT	ANALYST
13	7876	ADAMS	CLERK
14	7934	MILLER	CLERK

14 rows selected.

SQL> ED

Wrote file afiedt.buf

1 SELECT ROWNUM, Empno, Ename, Job
2 FROM Emp
3* WHERE Deptno = 10
SQL> /

ROWNUM	EMPNO	ENAME	JOB
1	7839	KING	PRESIDENT
2	7782	CLARK	MANAGER
3	7934	MILLER	CLERK

SQL> ED

Wrote file afiedt.buf

1 SELECT ROWNUM, Empno, Ename, Job
2 FROM Emp
3* WHERE Job = 'CLERK'
SQL> /

ROWNUM	EMPNO	ENAME	JOB
--------	-------	-------	-----

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```
-----  
      1      7900 JAMES      CLERK  
      2      7369 SMITH      CLERK  
      3      7876 ADAMS      CLERK  
      4      7934 MILLER     CLERK
```

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
      1  SELECT ROWNUM, Empno, Ename, Job  
      2* FROM Emp  
SQL> /
```

ROWNUM	EMPNO	ENAME	JOB
1	7839	KING	PRESIDENT
2	7698	BLAKE	MANAGER
3	7782	CLARK	MANAGER
4	7566	JONES	MANAGER
5	7654	MARTIN	SALESMAN
6	7499	ALLEN	SALESMAN
7	7844	TURNER	SALESMAN
8	7900	JAMES	CLERK
9	7521	WARD	SALESMAN
10	7902	FORD	ANALYST
11	7369	SMITH	CLERK
12	7788	SCOTT	ANALYST
13	7876	ADAMS	CLERK
14	7934	MILLER	CLERK

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
      1  SELECT ROWNUM, Empno, Ename, Job, Sal  
      2  FROM Emp  
      3* ORDER BY Sal  
SQL> /
```

ROWNUM	EMPNO	ENAME	JOB	SAL
11	7369	SMITH	CLERK	800
8	7900	JAMES	CLERK	950
13	7876	ADAMS	CLERK	1100

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```
.....
          9      7521 WARD      SALESMAN      1250
          5      7654 MARTIN    SALESMAN      1250
         14      7934 MILLER    CLERK         1300
          7      7844 TURNER    SALESMAN      1500
          6      7499 ALLEN     SALESMAN      1600
          3      7782 CLARK     MANAGER       2450
          2      7698 BLAKE     MANAGER       2850
          4      7566 JONES     MANAGER       2975
         10      7902 FORD      ANALYST       3000
         12      7788 SCOTT     ANALYST       3000
          1      7839 KING      PRESIDENT     5000
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, E1.*
2  FROM
3  (
4  SELECT Empno, Ename, Job, Sal
5  FROM Emp
6  ORDER BY Sal
7* ) E1
SQL> /
```

ROWNUM	EMPNO	ENAME	JOB	SAL
1	7369	SMITH	CLERK	800
2	7900	JAMES	CLERK	950
3	7876	ADAMS	CLERK	1100
4	7521	WARD	SALESMAN	1250
5	7654	MARTIN	SALESMAN	1250
6	7934	MILLER	CLERK	1300
7	7844	TURNER	SALESMAN	1500
8	7499	ALLEN	SALESMAN	1600
9	7782	CLARK	MANAGER	2450
10	7698	BLAKE	MANAGER	2850
11	7566	JONES	MANAGER	2975
12	7902	FORD	ANALYST	3000
13	7788	SCOTT	ANALYST	3000
14	7839	KING	PRESIDENT	5000

14 rows selected.

SQL> cl scr

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SQL> ED

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```
1  SELECT ROWNUM, Empno, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM = 1
SQL> /
```

ROWNUM	EMPNO	ENAME	DEPTNO	SAL
1	7839	KING	10	5000

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, Empno, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM = 4
SQL> /
```

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, Empno, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM < 4
SQL> /
```

ROWNUM	EMPNO	ENAME	DEPTNO	SAL
1	7839	KING	10	5000
2	7698	BLAKE	30	2850
3	7782	CLARK	10	2450

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, Empno, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM > 4
SQL> /
```

no rows selected

SQL> cl scr

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```
SQL> COLUMN SelectGraph FORMAT A16
SQL> SELECT
  2  Ename,
  3  LPAD('*', ROWNUM, '*') SelectGraph
  4  FROM Emp;
```

ENAME	SELECTGRAPH
KING	*
BLAKE	**
CLARK	***
JONES	****
MARTIN	*****
ALLEN	*****
TURNER	*****
JAMES	*****
WARD	*****
FORD	*****
SMITH	*****
SCOTT	*****
ADAMS	*****
MILLER	*****

14 rows selected.

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

```
  1  SELECT
  2  ROWNUM Seqno,
  3  LPAD('*', ROWNUM, '*') SelectGraph
  4  FROM Emp
  5* WHERE ROWNUM <= 5
SQL> /
```

SEQNO	SELECTGRAPH
1	*
2	**
3	***
4	****
5	*****

```
SQL> cl scr
```

```
SQL> SELECT ROWNUM, Ename, Sal
```

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```
2 FROM Emp
3 WHERE ROWNUM < 6
4 ORDER BY Sal DESC;
```

ROWNUM	ENAME	SAL
1	KING	5000
4	JONES	2975
2	BLAKE	2850
3	CLARK	2450
5	MARTIN	1250

```
SQL> SELECT ROWNUM, Ename, Sal
2 FROM Emp
3 WHERE ROWNUM < 6;
```

ROWNUM	ENAME	SAL
1	KING	5000
2	BLAKE	2850
3	CLARK	2450
4	JONES	2975
5	MARTIN	1250

```
SQL> cl scr
```

```
SQL> SELECT *
2 FROM
3 (
4 SELECT Ename, Sal, Deptno, Job
5 FROM Emp
6 ORDER BY Sal DESC
7 )
8 WHERE ROWNUM < 6;
```

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT
FORD	3000	20	ANALYST
SCOTT	3000	20	ANALYST
JONES	2975	20	MANAGER
BLAKE	2850	30	MANAGER

```
SQL> cl scr
```

```
SQL> SELECT LEVEL, ROWNUM, Ename, Sal
2 FROM Emp
```

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```
3 WHERE ROWNUM < 6
4 START WITH Ename = 'KING'
5 CONNECT BY PRIOR Empno = MGR
6 ORDER BY Sal DESC;
```

LEVEL	ROWNUM	ENAME	SAL
1	1	KING	5000
3	3	SCOTT	3000
3	5	FORD	3000
2	2	JONES	2975
4	4	ADAMS	1100

```
SQL> SELECT ROWNUM, E1.*
2 FROM
3 (
4 SELECT ROWNUM, Ename, Sal, Deptno, Job
5 FROM Emp
6 ORDER BY Sal DESC
7 ) E1
8 WHERE ROWNUM < 6;
```

ROWNUM	ROWNUM	ENAME	SAL	DEPTNO	JOB
1	1	KING	5000	10	PRESIDENT
2	10	FORD	3000	20	ANALYST
3	12	SCOTT	3000	20	ANALYST
4	4	JONES	2975	20	MANAGER
5	2	BLAKE	2850	30	MANAGER

```
SQL> cl scr
```

```
SQL> SELECT RN, Ename, Sal
2 FROM
3 (
4 SELECT ROWNUM RN, Ename, Sal
5 FROM Emp
6 )
7 WHERE MOD(RN, 2) = 0;
```

RN	ENAME	SAL
2	BLAKE	2850
4	JONES	2975
6	ALLEN	1600
8	JAMES	950
10	FORD	3000

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```
12 SCOTT          3000
14 MILLER         1300
```

7 rows selected.

```
SQL> ED
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```

```
1  SELECT RN, Ename, Sal
2  FROM
3  (
4  SELECT ROWNUM RN, Ename, Sal
5  FROM Emp
6  )
7* WHERE MOD(RN, 2) = 1
SQL> /
```

RN	ENAME	SAL
1	KING	5000
3	CLARK	2450
5	MARTIN	1250
7	TURNER	1500
9	WARD	1250
11	SMITH	800
13	ADAMS	1100

7 rows selected.

```
SQL> cl scr
```

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

ROWNUM	ENAME	DEPTNO	SAL
1	KING	10	5000
2	BLAKE	30	2850
3	CLARK	10	2450
4	JONES	20	2975
5	MARTIN	30	1250
6	ALLEN	30	1600
7	TURNER	30	1500
8	JAMES	30	950
9	WARD	30	1250
10	FORD	20	3000
11	SMITH	20	800

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```
12 SCOTT          20          3000
13 ADAMS          20          1100
14 MILLER         10          1300
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM = 1
SQL> /
```

ROWNUM	ENAME	DEPTNO	SAL
1	KING	10	5000

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWNUM = 5
SQL> /
```

no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  SELECT RN, Ename, Deptno, Sal
2  FROM
3  (
4  SELECT ROWNUM RN, Ename, Deptno, Sal
5  FROM Emp
6  ) E1
7* WHERE E1.RN = 5
SQL> /
```

RN	ENAME	DEPTNO	SAL
5	MARTIN	30	1250

SQL> ED

Wrote file afiedt.buf

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```
1 SELECT RN, Ename, Deptno, Sal
2 FROM
3 (
4 SELECT ROWNUM RN, Ename, Deptno, Sal
5 FROM Emp
6 ) E1
7* WHERE E1.RN <= &GiveRowLimit
```

SQL> /

Enter value for giverowlimit: = 1

RN	ENAME	DEPTNO	SAL
1	KING	10	5000

SQL> /

Enter value for giverowlimit: = 2

RN	ENAME	DEPTNO	SAL
2	BLAKE	30	2850

SQL> /

Enter value for giverowlimit: = 5

RN	ENAME	DEPTNO	SAL
5	MARTIN	30	1250

SQL> /

Enter value for giverowlimit: BETWEEN 1 AND 5

RN	ENAME	DEPTNO	SAL
1	KING	10	5000
2	BLAKE	30	2850
3	CLARK	10	2450
4	JONES	20	2975
5	MARTIN	30	1250

SQL> /

Enter value for giverowlimit: BETWEEN 6 AND 10

RN	ENAME	DEPTNO	SAL
6	ALLEN	30	1600
7	TURNER	30	1500
8	JAMES	30	950

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```
.....
          9 WARD          30          1250
         10 FORD          20          3000
```

SQL> /

Enter value for giverowlimit: BETWEEN 11 AND 15

```
-----
      RN  ENAME          DEPTNO          SAL
-----
      11 SMITH           20           800
      12 SCOTT           20          3000
      13 ADAMS           20          1100
      14 MILLER          10          1300
```

SQL> /

Enter value for giverowlimit: >= 5

```
-----
      RN  ENAME          DEPTNO          SAL
-----
       5 MARTIN          30          1250
       6 ALLEN           30          1600
       7 TURNER          30          1500
       8 JAMES           30           950
       9 WARD            30          1250
      10 FORD            20          3000
      11 SMITH           20           800
      12 SCOTT           20          3000
      13 ADAMS           20          1100
      14 MILLER          10          1300
```

10 rows selected.

SQL> /

Enter value for giverowlimit: <= 6

```
-----
      RN  ENAME          DEPTNO          SAL
-----
       1 KING            10          5000
       2 BLAKE           30          2850
       3 CLARK            10          2450
       4 JONES            20          2975
       5 MARTIN          30          1250
       6 ALLEN           30          1600
```

6 rows selected.

SQL> /

Enter value for giverowlimit: >= 8

```
-----
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```

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```
-----
      RN  ENAME          DEPTNO      SAL
-----
       8  JAMES          30         950
       9  WARD           30        1250
      10  FORD           20        3000
      11  SMITH          20         800
      12  SCOTT          20        3000
      13  ADAMS          20        1100
      14  MILLER         10        1300
-----
```

7 rows selected.

SQL> cl scr

SQL> SELECT ROWID, Ename, Job
2 FROM Emp;

```
-----
ROWID          ENAME          JOB
-----
AAASW3AAEAAAADMAAA KING      PRESIDENT
AAASW3AAEAAAADMAAB BLAKE     MANAGER
AAASW3AAEAAAADMAAC CLARK     MANAGER
AAASW3AAEAAAADMAAD JONES     MANAGER
AAASW3AAEAAAADMAAE MARTIN    SALESMAN
AAASW3AAEAAAADMAAF ALLEN     SALESMAN
AAASW3AAEAAAADMAAG TURNER    SALESMAN
AAASW3AAEAAAADMAAH JAMES     CLERK
AAASW3AAEAAAADMAAI WARD      SALESMAN
AAASW3AAEAAAADMAAJ FORD      ANALYST
AAASW3AAEAAAADMAAK SMITH     CLERK
AAASW3AAEAAAADMAAL SCOTT     ANALYST
AAASW3AAEAAAADMAAM ADAMS     CLERK
AAASW3AAEAAAADMAAN MILLER    CLERK
-----
```

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT ROWID, Ename, Job
2 FROM Emp
3* WHERE ROWID = 'AAASW3AAEAAAADMAAG'
SQL> /
```

```
-----
ROWID          ENAME          JOB
-----
```

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AAASW3AAEAAAADMAAG TURNER SALESMAN

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWID, Ename, Job
2  FROM Emp
3* WHERE ROWID < 'AAASW3AAEAAAADMAAG'
SQL> /
```

ROWID	ENAME	JOB
AAASW3AAEAAAADMAAA	KING	PRESIDENT
AAASW3AAEAAAADMAAB	BLAKE	MANAGER
AAASW3AAEAAAADMAAC	CLARK	MANAGER
AAASW3AAEAAAADMAAD	JONES	MANAGER
AAASW3AAEAAAADMAAE	MARTIN	SALESMAN
AAASW3AAEAAAADMAAF	ALLEN	SALESMAN

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWID, Ename, Job
2  FROM Emp
3* WHERE ROWID > 'AAASW3AAEAAAADMAAG'
SQL> /
```

ROWID	ENAME	JOB
AAASW3AAEAAAADMAAH	JAMES	CLERK
AAASW3AAEAAAADMAAI	WARD	SALESMAN
AAASW3AAEAAAADMAAJ	FORD	ANALYST
AAASW3AAEAAAADMAAK	SMITH	CLERK
AAASW3AAEAAAADMAAL	SCOTT	ANALYST
AAASW3AAEAAAADMAAM	ADAMS	CLERK
AAASW3AAEAAAADMAAN	MILLER	CLERK

7 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWID, Ename, Job
2  FROM Emp
```

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```
.....
3* WHERE ROWID BETWEEN 'AAASW3AAEAAAADMAA' || '&GiveStartRowid' AND
'AAASW3AAEAAAADMAA' || '&GiveEndRowid'
SQL> /
Enter value for givestartrowid: A
Enter value for giveendrowid: E
ERROR:
ORA-01756: quoted string not properly terminated
```

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

```
1  SELECT ROWID, Ename, Job
2  FROM Emp
3* WHERE ROWID BETWEEN 'AAASW3AAEAAAADMAA' || '&GiveStartRowid' AND
'AAASW3AAEAAAADMAA' || '&GiveEndRowid'
SQL> /
Enter value for givestartrowid: A
Enter value for giveendrowid: E
```

ROWID	ENAME	JOB
AAASW3AAEAAAADMAAA	KING	PRESIDENT
AAASW3AAEAAAADMAAB	BLAKE	MANAGER
AAASW3AAEAAAADMAAC	CLARK	MANAGER
AAASW3AAEAAAADMAAD	JONES	MANAGER
AAASW3AAEAAAADMAAE	MARTIN	SALESMAN

```
SQL> /
Enter value for givestartrowid: F
Enter value for giveendrowid: K
```

ROWID	ENAME	JOB
AAASW3AAEAAAADMAAF	ALLEN	SALESMAN
AAASW3AAEAAAADMAAG	TURNER	SALESMAN
AAASW3AAEAAAADMAAH	JAMES	CLERK
AAASW3AAEAAAADMAAI	WARD	SALESMAN
AAASW3AAEAAAADMAAJ	FORD	ANALYST
AAASW3AAEAAAADMAAK	SMITH	CLERK

6 rows selected.

```
SQL> /
Enter value for givestartrowid: L
Enter value for giveendrowid: O
```

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```
.....
```

ROWID	ENAME	JOB
AAASW3AAEAAAADMAAL	SCOTT	ANALYST
AAASW3AAEAAAADMAAM	ADAMS	CLERK
AAASW3AAEAAAADMAAN	MILLER	CLERK

```
SQL> SELECT Ename, Sal, Job
  2  FROM Emp
  3  WHERE ROWID = 'AAAMoOAAEAAAAzXAAJ';
FROM Emp
*
```

```
ERROR at line 2:
ORA-01410: invalid ROWID
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  B.Sal,
  3  SUM(A.Sal) "Cum Sal"
  4  FROM Emp A, Emp B
  5  WHERE A.ROWID < = B.ROWID
  6  GROUP BY B.ROWID, B.Sal
  7  ORDER BY "Cum Sal";
```

SAL	Cum Sal
5000	5000
2850	7850
2450	10300
2975	13275
1250	14525
1600	16125
1500	17625
950	18575
1250	19825
3000	22825
800	23625
3000	26625
1100	27725
1300	29025

```
14 rows selected.
```

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

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```
1  SELECT
2  B.Sal,
3  SUM(A.Sal) "Cum Sal",
4  AVG(A.Sal) "Avg Sal"
5  FROM Emp A, Emp B
6  WHERE A.ROWID < = B.ROWID
7  GROUP BY B.ROWID, B.Sal
8* ORDER BY "Cum Sal"
SQL> /
```

SAL	Cum Sal	Avg Sal
5000	5000	5000
2850	7850	3925
2450	10300	3433.33333
2975	13275	3318.75
1250	14525	2905
1600	16125	2687.5
1500	17625	2517.85714
950	18575	2321.875
1250	19825	2202.77778
3000	22825	2282.5
800	23625	2147.72727
3000	26625	2218.75
1100	27725	2132.69231
1300	29025	2073.21429

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

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```
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 Empno = 7839
4* CONNECT BY PRIOR Empno = MGR
SQL> /
```

EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> UPDATE Emp SET MGR = 7566 WHERE Ename = 'KING';

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

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```
7654 MARTIN          7698
7499 ALLEN            7698
7844 TURNER           7698
7900 JAMES             7698
7521 WARD              7698
7902 FORD              7566
7369 SMITH             7902
7788 SCOTT             7566
7876 ADAMS             7788
7934 MILLER           7782
```

14 rows selected.

```
SQL> SELECT Empno, Ename, MGR
2  FROM Emp
3  START WITH Empno = 7839
4  CONNECT BY PRIOR Empno = MGR;
ERROR:
ORA-01436: CONNECT BY loop in user data
```

no rows selected

```
SQL> ED
Wrote file afiedt.buf

1  SELECT Empno, Ename, MGR
2  FROM Emp
3  START WITH Empno = 7839
4* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

EMPNO	ENAME	MGR
7839	KING	7566
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698

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```
7782 CLARK          7839
7934 MILLER         7782
```

14 rows selected.

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

```
1  SELECT Empno, CONNECT_BY_ISCYCLE "Cycle", Ename, MGR
2  FROM Emp
3  START WITH Empno = 7839
4* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

EMPNO	Cycle	ENAME	MGR
7839	0	KING	7566
7566	1	JONES	7839
7788	0	SCOTT	7566
7876	0	ADAMS	7788
7902	0	FORD	7566
7369	0	SMITH	7902
7698	0	BLAKE	7839
7499	0	ALLEN	7698
7521	0	WARD	7698
7654	0	MARTIN	7698
7844	0	TURNER	7698
7900	0	JAMES	7698
7782	0	CLARK	7839
7934	0	MILLER	7782

14 rows selected.

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

```
1  SELECT Empno, CONNECT_BY_ISCYCLE "Cycle", Ename, MGR
2  FROM Emp
3  WHERE CONNECT_BY_ISCYCLE = 0
4  START WITH Empno = 7839
5* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

EMPNO	Cycle	ENAME	MGR
7839	0	KING	7566
7788	0	SCOTT	7566

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```
.....
7876      0 ADAMS      7788
7902      0 FORD      7566
7369      0 SMITH      7902
7698      0 BLAKE      7839
7499      0 ALLEN      7698
7521      0 WARD      7698
7654      0 MARTIN      7698
7844      0 TURNER      7698
7900      0 JAMES      7698
7782      0 CLARK      7839
7934      0 MILLER      7782
```

13 rows selected.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

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
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

SQL> ED

Wrote file afiedt.buf

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

EMPNO	ENAME	MGR
7839	KING	
7566	JONES	7839
7788	SCOTT	7566
7876	ADAMS	7788
7902	FORD	7566
7369	SMITH	7902
7698	BLAKE	7839
7499	ALLEN	7698
7521	WARD	7698
7654	MARTIN	7698
7844	TURNER	7698
7900	JAMES	7698
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

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

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

EMPNO	IsLeaf	ENAME	MGR
7839	0	KING	
7566	0	JONES	7839
7788	0	SCOTT	7566
7876	1	ADAMS	7788
7902	0	FORD	7566
7369	1	SMITH	7902
7698	0	BLAKE	7839
7499	1	ALLEN	7698
7521	1	WARD	7698
7654	1	MARTIN	7698
7844	1	TURNER	7698

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```
7900      1 JAMES      7698
7782      0 CLARK      7839
7934      1 MILLER      7782
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, CONNECT_BY_ISLEAF "IsLeaf", Ename, MGR
2  FROM Emp
3  WHERE CONNECT_BY_ISLEAF = 0
4  START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

EMPNO	IsLeaf	ENAME	MGR
7839	0	KING	
7566	0	JONES	7839
7788	0	SCOTT	7566
7902	0	FORD	7566
7698	0	BLAKE	7839
7782	0	CLARK	7839

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, CONNECT_BY_ISLEAF "IsLeaf", Ename, MGR
2  FROM Emp
3  WHERE CONNECT_BY_ISLEAF = 1
4  START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

EMPNO	IsLeaf	ENAME	MGR
7876	1	ADAMS	7788
7369	1	SMITH	7902
7499	1	ALLEN	7698
7521	1	WARD	7698
7654	1	MARTIN	7698
7844	1	TURNER	7698
7900	1	JAMES	7698
7934	1	MILLER	7782

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8 rows selected.

SQL> SPOOL OFF

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