

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT ROWNUM RN, Ename, Sal
2   FROM Emp
3   /
```

RN	ENAME	SAL
1	KING	5000
2	BLAKE	2850
3	CLARK	2450
4	JONES	2975
5	MARTIN	1250
6	ALLEN	1600
7	TURNER	1500
8	JAMES	950
9	WARD	1250
10	FORD	3000
11	SMITH	800
12	SCOTT	3000
13	ADAMS	1100
14	MILLER	1300

14 rows selected.

```
SQL> SELECT RN, Ename, Sal
2   FROM
3   (
4     SELECT ROWNUM RN, Ename, Sal
5     FROM Emp
6   )
7   WHERE RN = &GiveRn;
Enter value for givern: 1
```

RN	ENAME	SAL
1	KING	5000

```
SQL> /
Enter value for givern: 2
```

RN	ENAME	SAL
2	BLAKE	2850

```
SQL> /
Enter value for givern: 3
```

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RN	ENAME	SAL
3	CLARK	2450

SQL> ED
Wrote file afiedt.buf

```
1  SELECT RN, Ename, Sal
2  FROM
3  (
4  SELECT ROWNUM RN, Ename, Sal
5  FROM Emp
6  )
7* WHERE RN &GiveRn
SQL> /
Enter value for given: = 1
```

RN	ENAME	SAL
1	KING	5000

SQL> /
Enter value for given: = 2

RN	ENAME	SAL
2	BLAKE	2850

SQL> /
Enter value for given: <= 4

RN	ENAME	SAL
1	KING	5000
2	BLAKE	2850
3	CLARK	2450
4	JONES	2975

SQL> /
Enter value for given: >= 8

RN	ENAME	SAL
8	JAMES	950
9	WARD	1250
10	FORD	3000

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```
11 SMITH          800
12 SCOTT          3000
13 ADAMS          1100
14 MILLER         1300
```

7 rows selected.

SQL> /

Enter value for given: BETWEEN 1 AND 5

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

SQL> /

Enter value for given: BETWEEN 10 AND 15

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

SQL> /

Enter value for given: IN(1, 4, 8)

```
   RN ENAME          SAL
-----
    1 KING           5000
    4 JONES          2975
    8 JAMES           950
```

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
-----
```

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```
-----
      2 BLAKE                2850
      4 JONES                2975
      6 ALLEN                1600
      8 JAMES                950
     10 FORD                 3000
     12 SCOTT                3000
     14 MILLER               1300
```

7 rows selected.

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

```
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> SELECT RN, Ename, Sal
2  FROM
3  (
4  SELECT ROWNUM RN, Ename, Sal
5  FROM Emp
6  )
7  WHERE RN BETWEEN &GineRn1 AND &GiveRn2;
Enter value for ginern1: 1
Enter value for givern2: 5
```

```
-----
      RN ENAME                SAL
-----
```

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```
1 KING          5000
2 BLAKE         2850
3 CLARK         2450
4 JONES         2975
5 MARTIN        1250
```

```
SQL> /
Enter value for givern1: 6
Enter value for givern2: 10
```

```
      RN ENAME          SAL
-----
      6 ALLEN          1600
      7 TURNER         1500
      8 JAMES           950
      9 WARD           1250
     10 FORD           3000
```

```
SQL> /
Enter value for givern1: 11
Enter value for givern2: 15
```

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

```
SQL> cl scr
```

```
SQL> SELECT ROWNUM, Ename, Sal
2 FROM Emp
3 GROUP BY ROWNUM, Ename, Sal
4 HAVING ROWNUM BETWEEN &GiveRowNum1 AND &GiveRowNum2;
Enter value for giverownum1: 1
Enter value for giverownum2: 5
```

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

```
SQL> cl scr
```

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

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAA	KING	10	5000
AAAUDHAAEAAAAOWAAB	BLAKE	30	2850
AAAUDHAAEAAAAOWAAC	CLARK	10	2450
AAAUDHAAEAAAAOWAAD	JONES	20	2975
AAAUDHAAEAAAAOWAAE	MARTIN	30	1250
AAAUDHAAEAAAAOWAAF	ALLEN	30	1600
AAAUDHAAEAAAAOWAAG	TURNER	30	1500
AAAUDHAAEAAAAOWAAH	JAMES	30	950
AAAUDHAAEAAAAOWAAI	WARD	30	1250
AAAUDHAAEAAAAOWAAJ	FORD	20	3000
AAAUDHAAEAAAAOWAAK	SMITH	20	800
AAAUDHAAEAAAAOWAAL	SCOTT	20	3000
AAAUDHAAEAAAAOWAAM	ADAMS	20	1100
AAAUDHAAEAAAAOWAAN	MILLER	10	1300

14 rows selected.

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

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

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAF	ALLEN	30	1600

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

```
1 SELECT ROWID, Ename, Deptno, Sal
2 FROM Emp
3* WHERE ROWID < 'AAAUDHAAEAAAAOWAAF'
SQL> /
```

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAA	KING	10	5000
AAAUDHAAEAAAAOWAAB	BLAKE	30	2850

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```
AAAUDHAAEAAAAOWAAC CLARK          10          2450
AAAUDHAAEAAAAOWAAD JONES          20          2975
AAAUDHAAEAAAAOWAAE MARTIN         30          1250
```

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

```
1  SELECT ROWID, Ename, Deptno, Sal
2  FROM Emp
3* WHERE ROWID > 'AAAUDHAAEAAAAOWAAF'
SQL> /
```

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAG	TURNER	30	1500
AAAUDHAAEAAAAOWAAH	JAMES	30	950
AAAUDHAAEAAAAOWAAI	WARD	30	1250
AAAUDHAAEAAAAOWAAJ	FORD	20	3000
AAAUDHAAEAAAAOWAAK	SMITH	20	800
AAAUDHAAEAAAAOWAAL	SCOTT	20	3000
AAAUDHAAEAAAAOWAAM	ADAMS	20	1100
AAAUDHAAEAAAAOWAAN	MILLER	10	1300

8 rows selected.

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

```
1  SELECT ROWID, Ename, Deptno, Sal
2  FROM Emp
3  WHERE ROWID BETWEEN 'AAAUDHAAEAAAAOWAA' || '&GStartRID'
4* AND 'AAAUDHAAEAAAAOWAA' || '&GEndRID'
SQL> /
```

```
Enter value for gstartrid: A
Enter value for gendrid: E
```

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAA	KING	10	5000
AAAUDHAAEAAAAOWAAB	BLAKE	30	2850
AAAUDHAAEAAAAOWAAC	CLARK	10	2450
AAAUDHAAEAAAAOWAAD	JONES	20	2975
AAAUDHAAEAAAAOWAAE	MARTIN	30	1250

```
SQL> /
Enter value for gstartrid: F
Enter value for gendrid: J
```

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ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAF	ALLEN	30	1600
AAAUDHAAEAAAAOWAAG	TURNER	30	1500
AAAUDHAAEAAAAOWAAH	JAMES	30	950
AAAUDHAAEAAAAOWAAI	WARD	30	1250
AAAUDHAAEAAAAOWAAJ	FORD	20	3000

```
SQL> /
Enter value for gstartrid: K
Enter value for gendrid: N
```

ROWID	ENAME	DEPTNO	SAL
AAAUDHAAEAAAAOWAAK	SMITH	20	800
AAAUDHAAEAAAAOWAAL	SCOTT	20	3000
AAAUDHAAEAAAAOWAAM	ADAMS	20	1100
AAAUDHAAEAAAAOWAAN	MILLER	10	1300

```
SQL> cl scr
```

```
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

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1250	14525
1600	16125
1500	17625
950	18575
1250	19825
3000	22825
800	23625
3000	26625
1100	27725
1300	29025

14 rows selected.

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

ENAME	SAL	Cum Sal
KING	5000	5000
BLAKE	2850	7850
CLARK	2450	10300
JONES	2975	13275
MARTIN	1250	14525
ALLEN	1600	16125
TURNER	1500	17625
JAMES	950	18575
WARD	1250	19825
FORD	3000	22825
SMITH	800	23625
SCOTT	3000	26625
ADAMS	1100	27725
MILLER	1300	29025

14 rows selected.

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

```
1  SELECT
2  B.Ename ,
3  B.Sal ,
```

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

ENAME	SAL	Cum Sal	Mov Avg
KING	5000	5000	5000
BLAKE	2850	7850	3925
CLARK	2450	10300	3433.33333
JONES	2975	13275	3318.75
MARTIN	1250	14525	2905
ALLEN	1600	16125	2687.5
TURNER	1500	17625	2517.85714
JAMES	950	18575	2321.875
WARD	1250	19825	2202.77778
FORD	3000	22825	2282.5
SMITH	800	23625	2147.72727
SCOTT	3000	26625	2218.75
ADAMS	1100	27725	2132.69231
MILLER	1300	29025	2073.21429

14 rows selected.

```
SQL> cl scr
```

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

```
1 SELECT
2 Empno, Ename, MGR
3 FROM Emp
4 START WITH Ename = 'KING'
5* 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

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

1 row updated.

```
SQL> SELECT
      2 Empno, Ename, MGR
      3 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
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

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

ERROR:

ORA-01436: CONNECT BY loop in user data

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no rows selected

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Empno, Ename, MGR
3  FROM Emp
4  START WITH Ename = 'KING'
5* 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
7782	CLARK	7839
7934	MILLER	7782

14 rows selected.

SQL> COLUMN "SalPath" FORMAT A20

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

ENAME	Cycle	LEVEL	SalPath
KING	0	1	/5000
JONES	1	2	/5000/2975

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```
SCOTT          0          3 /5000/2975/3000
ADAMS          0          4 /5000/2975/3000/1100
FORD           0          3 /5000/2975/3000
SMITH          0          4 /5000/2975/3000/800
BLAKE          0          2 /5000/2850
ALLEN          0          3 /5000/2850/1600
WARD           0          3 /5000/2850/1250
MARTIN         0          3 /5000/2850/1250
TURNER         0          3 /5000/2850/1500
JAMES          0          3 /5000/2850/950
CLARK          0          2 /5000/2450
MILLER         0          3 /5000/2450/1300
```

14 rows selected.

```
SQL> SELECT
      2  Ename,
      3  LEVEL,
      4  SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
      5  FROM Emp
      6  WHERE CONNECT_BY_ISCYCLE = 0
      7  START WITH Ename = 'KING'
      8  CONNECT BY NOCYCLE PRIOR Empno = MGR;
```

ENAME	LEVEL	SalPath
KING	1	/5000
SCOTT	3	/5000/2975/3000
ADAMS	4	/5000/2975/3000/1100
FORD	3	/5000/2975/3000
SMITH	4	/5000/2975/3000/800
BLAKE	2	/5000/2850
ALLEN	3	/5000/2850/1600
WARD	3	/5000/2850/1250
MARTIN	3	/5000/2850/1250
TURNER	3	/5000/2850/1500
JAMES	3	/5000/2850/950
CLARK	2	/5000/2450
MILLER	3	/5000/2450/1300

13 rows selected.

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

```
1  SELECT
2  Ename,
```

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```
3  LEVEL,
4  SYS_CONNECT_BY_PATH(Sal, '/') "SalPath"
5  FROM Emp
6  WHERE CONNECT_BY_ISCYCLE = 1
7  START WITH Ename = 'KING'
8* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

ENAME	LEVEL	SalPath
JONES	2	/5000/2975

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> COL "Path" FORMAT A30

```
SQL> SELECT
2  Ename "Employee",
3  CONNECT_BY_ISLEAF "IsLeaf",
4  LEVEL,
5  SYS_CONNECT_BY_PATH(Ename, '/') "Path"
6  FROM Emp
7  START WITH Empno = 7839
8  CONNECT BY PRIOR Empno = MGR;
```

Employee	IsLeaf	LEVEL	Path
KING	0	1	/KING
JONES	0	2	/KING/JONES
SCOTT	0	3	/KING/JONES/SCOTT
ADAMS	1	4	/KING/JONES/SCOTT/ADAMS
FORD	0	3	/KING/JONES/FORD
SMITH	1	4	/KING/JONES/FORD/SMITH
BLAKE	0	2	/KING/BLAKE
ALLEN	1	3	/KING/BLAKE/ALLEN
WARD	1	3	/KING/BLAKE/WARD
MARTIN	1	3	/KING/BLAKE/MARTIN
TURNER	1	3	/KING/BLAKE/TURNER
JAMES	1	3	/KING/BLAKE/JAMES
CLARK	0	2	/KING/CLARK
MILLER	1	3	/KING/CLARK/MILLER

14 rows selected.

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SQL> cl scr

```
SQL> SELECT
  2  Ename "Employee",
  3  CONNECT_BY_ISLEAF "IsLeaf",
  4  LEVEL,
  5  SYS_CONNECT_BY_PATH(Ename, '/') "Path"
  6  FROM Emp
  7  WHERE CONNECT_BY_ISLEAF = 0
  8  START WITH Empno = 7839
  9  CONNECT BY PRIOR Empno = MGR;
```

Employee	IsLeaf	LEVEL	Path
KING	0	1	/KING
JONES	0	2	/KING/JONES
SCOTT	0	3	/KING/JONES/SCOTT
FORD	0	3	/KING/JONES/FORD
BLAKE	0	2	/KING/BLAKE
CLARK	0	2	/KING/CLARK

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  Ename "Employee",
3  CONNECT_BY_ISLEAF "IsLeaf",
4  LEVEL,
5  SYS_CONNECT_BY_PATH(Ename, '/') "Path"
6  FROM Emp
7  WHERE CONNECT_BY_ISLEAF = 1
8  START WITH Empno = 7839
9* CONNECT BY PRIOR Empno = MGR
```

SQL> /

Employee	IsLeaf	LEVEL	Path
ADAMS	1	4	/KING/JONES/SCOTT/ADAMS
SMITH	1	4	/KING/JONES/FORD/SMITH
ALLEN	1	3	/KING/BLAKE/ALLEN
WARD	1	3	/KING/BLAKE/WARD
MARTIN	1	3	/KING/BLAKE/MARTIN
TURNER	1	3	/KING/BLAKE/TURNER
JAMES	1	3	/KING/BLAKE/JAMES
MILLER	1	3	/KING/CLARK/MILLER

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8 rows selected.

SQL> SPOOL OFF

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