

## Spool File For Oracle Students Prepared By Mr.Balram

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

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7566	JONES	MANAGER	2975	20
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7844	TURNER	SALESMAN	1500	30
7876	ADAMS	CLERK	1100	20

EMPNO	ENAME	JOB	SAL	DEPTNO
7900	JAMES	CLERK	950	30
7902	FORD	ANALYST	3000	20
7934	MILLER	CLERK	1300	10

14 rows selected.

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

ROWNUM	EMPNO	ENAME	JOB	SAL	DEPTNO
1	7369	SMITH	CLERK	800	20
2	7499	ALLEN	SALESMAN	1600	30
3	7521	WARD	SALESMAN	1250	30
4	7566	JONES	MANAGER	2975	20
5	7654	MARTIN	SALESMAN	1250	30
6	7698	BLAKE	MANAGER	2850	30
7	7782	CLARK	MANAGER	2450	10
8	7788	SCOTT	ANALYST	3000	20
9	7839	KING	PRESIDENT	5000	10
10	7844	TURNER	SALESMAN	1500	30
11	7876	ADAMS	CLERK	1100	20

  

ROWNUM	EMPNO	ENAME	JOB	SAL	DEPTNO
12	7900	JAMES	CLERK	950	30
13	7902	FORD	ANALYST	3000	20
14	7934	MILLER	CLERK	1300	10

14 rows selected.

```
SQL> SELECT ROWNUM SEQNO, Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Deptno = 10;
```

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SEQNO	EMPNO	ENAME	JOB	SAL	DEPTNO
1	7782	CLARK	MANAGER	2450	10
2	7839	KING	PRESIDENT	5000	10
3	7934	MILLER	CLERK	1300	10

```
SQL> SELECT * FROM Sample09;  
SELECT * FROM Sample09  
      *
```

ERROR at line 1:  
ORA-00942: table or view does not exist

```
SQL> SELECT * FROM Sample08;
```

no rows selected

```
SQL> SELECT ROWNUM, SAMPID, SAMPNAME, SAMPDATE FROM Sample08;
```

no rows selected

```
SQL> SELECT ROWNUM SEQNO, Empno, Ename, Job, Sal, Deptno  
2 FROM Emp  
3 WHERE ROWNUM = 1;
```

SEQNO	EMPNO	ENAME	JOB	SAL	DEPTNO
1	7369	SMITH	CLERK	800	20

```
SQL> SELECT ROWNUM SEQNO, Empno, Ename, Job, Sal, Deptno  
2 FROM Emp  
3 WHERE ROWNUM = 4;
```

no rows selected

```
SQL> SELECT ROWNUM SEQNO, Empno, Ename, Job, Sal, Deptno  
2 FROM Emp  
3 WHERE ROWNUM <= 4;
```

SEQNO	EMPNO	ENAME	JOB	SAL	DEPTNO
1	7369	SMITH	CLERK	800	20
2	7499	ALLEN	SALESMAN	1600	30
3	7521	WARD	SALESMAN	1250	30
4	7566	JONES	MANAGER	2975	20

```
SQL> SELECT ROWNUM SEQNO, Empno, Ename, Job, Sal, Deptno  
2 FROM Emp  
3 WHERE ROWNUM > 4;
```

no rows selected

```
SQL> SELECT Ename,  
2 Job,
```

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```
3 Sal,
4 Deptno
5 FROM Emp
6 WHERE MOD(ROWNUM, 2) = 0;
```

no rows selected

```
SQL> SELECT Ename,
2 Job,
3 Sal,
4 Deptno
5 FROM Emp
6 WHERE MOD(ROWNUM, 2) = 1;
```

ENAME	JOB	SAL	DEPTNO
SMITH	CLERK	800	20

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

ROWNUM	ENAME	JOB	SAL	DEPTNO
1	SMITH	CLERK	800	20
2	ALLEN	SALESMAN	1600	30
3	WARD	SALESMAN	1250	30
4	JONES	MANAGER	2975	20
5	MARTIN	SALESMAN	1250	30
6	BLAKE	MANAGER	2850	30
7	CLARK	MANAGER	2450	10
8	SCOTT	ANALYST	3000	20
9	KING	PRESIDENT	5000	10
10	TURNER	SALESMAN	1500	30
11	ADAMS	CLERK	1100	20

12	JAMES	CLERK	950	30
13	FORD	ANALYST	3000	20
14	MILLER	CLERK	1300	10

14 rows selected.

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

```
1 SELECT E.*
2 FROM (
3 SELECT ROWNUM RN, Ename, Job, Sal, Deptno
4 FROM Emp
5 ) E
6* WHERE MOD(E.RN, 2) =0
SQL> /
```

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RN	ENAME	JOB	SAL	DEPTNO
2	ALLEN	SALESMAN	1600	30
4	JONES	MANAGER	2975	20
6	BLAKE	MANAGER	2850	30
8	SCOTT	ANALYST	3000	20
10	TURNER	SALESMAN	1500	30
12	JAMES	CLERK	950	30
14	MILLER	CLERK	1300	10

7 rows selected.

SQL> ED

Wrote file afiedt.buf

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

RN	ENAME	JOB	SAL	DEPTNO
1	SMITH	CLERK	800	20
3	WARD	SALESMAN	1250	30
5	MARTIN	SALESMAN	1250	30
7	CLARK	MANAGER	2450	10
9	KING	PRESIDENT	5000	10
11	ADAMS	CLERK	1100	20
13	FORD	ANALYST	3000	20

7 rows selected.

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

ROWID	EMPNO	ENAME	JOB	SAL
AAAR3sAAEAAAACXAAA	7369	SMITH	CLERK	800
AAAR3sAAEAAAACXAAB	7499	ALLEN	SALESMAN	1600
AAAR3sAAEAAAACXAAC	7521	WARD	SALESMAN	1250
AAAR3sAAEAAAACXAAD	7566	JONES	MANAGER	2975
AAAR3sAAEAAAACXAAE	7654	MARTIN	SALESMAN	1250
AAAR3sAAEAAAACXAAF	7698	BLAKE	MANAGER	2850
AAAR3sAAEAAAACXAAG	7782	CLARK	MANAGER	2450
AAAR3sAAEAAAACXAAH	7788	SCOTT	ANALYST	3000
AAAR3sAAEAAAACXAAI	7839	KING	PRESIDENT	5000
AAAR3sAAEAAAACXAAJ	7844	TURNER	SALESMAN	1500
AAAR3sAAEAAAACXAAK	7876	ADAMS	CLERK	1100

ROWID	EMPNO	ENAME	JOB	SAL
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```
AAAR3sAAEAAAACXAAL  7900 JAMES  CLERK          950
AAAR3sAAEAAAACXAAM  7902 FORD   ANALYST       3000
AAAR3sAAEAAAACXAAN  7934 MILLER CLERK          1300
```

14 rows selected.

```
SQL> SELECT ROWID, Empno, Ename, Job, Sal
  2   FROM Emp
  3   WHERE ROWID = 'AAAR3sAAEAAAACXAAD';
```

ROWID	EMPNO	ENAME	JOB	SAL
AAAR3sAAEAAAACXAAD	7566	JONES	MANAGER	2975

```
SQL> --CONNECT_BY_ISCYCLE--
SQL> SELECT Ename, Empno, MGR, Job, Sal, Deptno
  2   FROM Emp
  3   START WITH Ename = 'KING'
  4   CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL	DEPTNO
KING	7839		PRESIDENT	5000	10
JONES	7566	7839	MANAGER	2975	20
SCOTT	7788	7566	ANALYST	3000	20
ADAMS	7876	7788	CLERK	1100	20
FORD	7902	7566	ANALYST	3000	20
SMITH	7369	7902	CLERK	800	20
BLAKE	7698	7839	MANAGER	2850	30
ALLEN	7499	7698	SALESMAN	1600	30
WARD	7521	7698	SALESMAN	1250	30
MARTIN	7654	7698	SALESMAN	1250	30
TURNER	7844	7698	SALESMAN	1500	30

ENAME	EMPNO	MGR	JOB	SAL	DEPTNO
JAMES	7900	7698	CLERK	950	30
CLARK	7782	7839	MANAGER	2450	10
MILLER	7934	7782	CLERK	1300	10

14 rows selected.

```
SQL> UPDATE EMP
  2   SET MGR = 7566
  3   WHERE ENAME = 'KING';
```

1 row updated.

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

ERROR:  
ORA-01436: CONNECT BY loop in user data

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---

no rows selected

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

ENAME	EMPNO	MGR	JOB	SAL	DEPTNO
KING	7839	7566	PRESIDENT	5000	10
JONES	7566	7839	MANAGER	2975	20
SCOTT	7788	7566	ANALYST	3000	20
ADAMS	7876	7788	CLERK	1100	20
FORD	7902	7566	ANALYST	3000	20
SMITH	7369	7902	CLERK	800	20
BLAKE	7698	7839	MANAGER	2850	30
ALLEN	7499	7698	SALESMAN	1600	30
WARD	7521	7698	SALESMAN	1250	30
MARTIN	7654	7698	SALESMAN	1250	30
TURNER	7844	7698	SALESMAN	1500	30

ENAME	EMPNO	MGR	JOB	SAL	DEPTNO
JAMES	7900	7698	CLERK	950	30
CLARK	7782	7839	MANAGER	2450	10
MILLER	7934	7782	CLERK	1300	10

14 rows selected.

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

```
  1  SELECT
  2  Ename,
  3  Empno,
  4  MGR,
  5  CONNECT_BY_ISCYCLE,
  6  Job,
  7  Sal,
  8  Deptno
  9  FROM Emp
 10  START WITH Ename = 'KING'
 11* CONNECT BY NOCYCLE PRIOR Empno = MGR;
SQL> /
CONNECT BY NOCYCLE PRIOR Empno = MGR;
*
```

ERROR at line 11:  
ORA-00911: invalid character

```
SQL> ED
```

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---

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Empno,
4  MGR,
5  CONNECT_BY_ISCYCLE,
6  Job,
7  Sal,
8  Deptno
9  FROM Emp
10 START WITH Ename = 'KING'
11* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	CONNECT_BY_ISCYCLE	JOB	SAL	DEPTNO
KING	7839	7566	0	PRESIDENT	5000	10
JONES	7566	7839	1	MANAGER	2975	20
SCOTT	7788	7566	0	ANALYST	3000	20
ADAMS	7876	7788	0	CLERK	1100	20
FORD	7902	7566	0	ANALYST	3000	20
SMITH	7369	7902	0	CLERK	800	20
BLAKE	7698	7839	0	MANAGER	2850	30
ALLEN	7499	7698	0	SALESMAN	1600	30
WARD	7521	7698	0	SALESMAN	1250	30
MARTIN	7654	7698	0	SALESMAN	1250	30
TURNER	7844	7698	0	SALESMAN	1500	30

ENAME	EMPNO	MGR	CONNECT_BY_ISCYCLE	JOB	SAL	DEPTNO
JAMES	7900	7698	0	CLERK	950	30
CLARK	7782	7839	0	MANAGER	2450	10
MILLER	7934	7782	0	CLERK	1300	10

14 rows selected.

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

```
1  SELECT
2  Ename,
3  Empno,
4  MGR,
5  CONNECT_BY_ISCYCLE,
6  CONNECT_BY_ISLEAF,
7  Job,
8  Sal,
9  Deptno
10 FROM Emp
11 START WITH Ename = 'KING'
12* CONNECT BY NOCYCLE PRIOR Empno = MGR
SQL> /
```

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```
-----
ENAME  EMPNO      MGR CONNECT_BY_ISCYCLE CONNECT_BY_ISLEAF JOB
SAL
-----
-----
DEPTNO
-----
KING    7839      7566              0              0 PRESIDENT
5000
    10

JONES   7566      7839              1              0  MANAGER
2975
    20

SCOTT   7788      7566              0              0  ANALYST
3000
    20

ENAME  EMPNO      MGR CONNECT_BY_ISCYCLE CONNECT_BY_ISLEAF JOB
SAL
-----
-----
DEPTNO
-----
ADAMS   7876      7788              0              1  CLERK
1100
    20

FORD    7902      7566              0              0  ANALYST
3000
    20

SMITH   7369      7902              0              1  CLERK
800
    20

ENAME  EMPNO      MGR CONNECT_BY_ISCYCLE CONNECT_BY_ISLEAF JOB
SAL
-----
-----
DEPTNO
-----
BLAKE   7698      7839              0              0  MANAGER
2850
    30

ALLEN   7499      7698              0              1  SALESMAN
1600
    30

WARD    7521      7698              0              1  SALESMAN
1250
```



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30

ENAME	EMPNO	MGR	CONNECT_BY_ISCYCLE	CONNECT_BY_ISLEAF	JOB
MARTIN	7654	7698	0	1	SALESMAN
1250					
30					
TURNER	7844	7698	0	1	SALESMAN
1500					
30					
JAMES	7900	7698	0	1	CLERK
950					
30					

ENAME	EMPNO	MGR	CONNECT_BY_ISCYCLE	CONNECT_BY_ISLEAF	JOB
CLARK	7782	7839	0	0	MANAGER
2450					
10					
MILLER	7934	7782	0	1	CLERK
1300					
10					

14 rows selected.

SQL> ED  
Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Empno,
4  MGR,
5  CONNECT_BY_ISCYCLE CYCLE,
6  CONNECT_BY_ISLEAF LEAF,
7  Job,
8  Sal,
9  Deptno
10 FROM Emp
11 START WITH Ename = 'KING'
12* CONNECT BY NOCYCLE PRIOR Empno = MGR
```

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---

SQL> /

ENAME	EMPNO	MGR	CYCLE	LEAF	JOB	SAL	DEPTNO
KING	7839	7566	0	0	PRESIDENT	5000	10
JONES	7566	7839	1	0	MANAGER	2975	20
SCOTT	7788	7566	0	0	ANALYST	3000	20
ADAMS	7876	7788	0	1	CLERK	1100	20
FORD	7902	7566	0	0	ANALYST	3000	20
SMITH	7369	7902	0	1	CLERK	800	20
BLAKE	7698	7839	0	0	MANAGER	2850	30
ALLEN	7499	7698	0	1	SALESMAN	1600	30
WARD	7521	7698	0	1	SALESMAN	1250	30
MARTIN	7654	7698	0	1	SALESMAN	1250	30
TURNER	7844	7698	0	1	SALESMAN	1500	30

ENAME	EMPNO	MGR	CYCLE	LEAF	JOB	SAL	DEPTNO
JAMES	7900	7698	0	1	CLERK	950	30
CLARK	7782	7839	0	0	MANAGER	2450	10
MILLER	7934	7782	0	1	CLERK	1300	10

14 rows selected.

SQL> SPOOL OFF