



**Sathish Yellanki**

**Institute of Software Solutions**

**Announcing A New Batch  
For  
Performance Tuning**

**Date : 22<sup>nd</sup> June 2015  
Time : 12.30 P.M.**

**Registrations  
Started**

**Contact Details**

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SQL> cl scr

```
SQL> SELECT Ename, Deptno, Job, Sal, Comm
  2  FROM Emp
  3  WHERE Job = 'CLERK';
```

ENAME	DEPTNO	JOB	SAL	COMM
JAMES	30	CLERK	950	
SMITH	20	CLERK	800	
ADAMS	20	CLERK	1100	
MILLER	10	CLERK	1300	

```
SQL> UPDATE EMP
  2  SET Comm = NULL
  3  WHERE Job = 'CLERK';
```

4 rows updated.

```
SQL> SELECT Ename, Deptno, Job, Sal, Comm
  2  FROM Emp
  3  WHERE Job = 'CLERK';
```

ENAME	DEPTNO	JOB	SAL	COMM
JAMES	30	CLERK	950	
SMITH	20	CLERK	800	
ADAMS	20	CLERK	1100	
MILLER	10	CLERK	1300	

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

ENAME	DEPTNO	JOB	SAL	COMM
KING	10	PRESIDENT	5000	
BLAKE	30	MANAGER	2850	
CLARK	10	MANAGER	2450	
JONES	20	MANAGER	2975	
MARTIN	30	SALESMAN	1250	1400
ALLEN	30	SALESMAN	1600	300
TURNER	30	SALESMAN	1500	0
JAMES	30	CLERK	950	
WARD	30	SALESMAN	1250	500
FORD	20	ANALYST	3000	
SMITH	20	CLERK	800	
SCOTT	20	ANALYST	3000	
ADAMS	20	CLERK	1100	
MILLER	10	CLERK	1300	

14 rows selected.

```
SQL> UPDATE Emp
  2  SET Sal = NULL
```

3 ;

14 rows updated.

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

ENAME	DEPTNO	JOB	SAL	COMM
KING	10	PRESIDENT		
BLAKE	30	MANAGER		
CLARK	10	MANAGER		
JONES	20	MANAGER		
MARTIN	30	SALESMAN		1400
ALLEN	30	SALESMAN		300
TURNER	30	SALESMAN		0
JAMES	30	CLERK		
WARD	30	SALESMAN		500
FORD	20	ANALYST		
SMITH	20	CLERK		
SCOTT	20	ANALYST		
ADAMS	20	CLERK		
MILLER	10	CLERK		

14 rows selected.

```
SQL> ROLLBACK;
```

Rollback complete.

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

ENAME	DEPTNO	JOB	SAL	COMM
KING	10	PRESIDENT	5000	
BLAKE	30	MANAGER	2850	
CLARK	10	MANAGER	2450	
JONES	20	MANAGER	2975	
MARTIN	30	SALESMAN	1250	1400
ALLEN	30	SALESMAN	1600	300
TURNER	30	SALESMAN	1500	0
JAMES	30	CLERK	950	
WARD	30	SALESMAN	1250	500
FORD	20	ANALYST	3000	
SMITH	20	CLERK	800	
SCOTT	20	ANALYST	3000	
ADAMS	20	CLERK	1100	
MILLER	10	CLERK	1300	

14 rows selected.

```
SQL> cl scr
```

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> SELECT * FROM Emp WHERE Ename = 'ALLEN';
SELECT * FROM Emp WHERE Ename = 'ALLEN';
*
```

ERROR at line 1:  
ORA-00911: invalid character

SQL> ED  
Wrote file afiedt.buf

```
1* SELECT * FROM Emp WHERE Ename = 'ALLEN'
SQL> /
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
300	7499	ALLEN	SALESMAN	7698 20-FEB-81	1600
	30				

```
SQL> UPDATE Emp
2 SET
3 Job = 'MANAGER',
4 Sal = 2500,
5 Deptno = 10
6 WHERE Ename = 'ALLEN';
```

1 row updated.

SQL> SELECT \* FROM Emp WHERE Ename = 'ALLEN';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
300	7499	ALLEN	MANAGER	7698 20-FEB-81	2500
	10				

SQL> ROLLBACK;

Rollback complete.

SQL> SELECT \* FROM Emp WHERE Ename = 'ALLEN';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				

```

      7499 ALLEN      SALESMAN      7698 20-FEB-81      1600
300          30

```

SQL> SELECT \* FROM Emp WHERE Ename = 'BLAKE';

```

      EMPNO ENAME      JOB      MGR HIREDATE      SAL
COMM      DEPTNO
-----
-
      7698 BLAKE      MANAGER      7839 01-MAY-81      2850
30

```

```

SQL> UPDATE Emp
2 SET
3   Job = 'ANALYST',
4   Sal = Sal + 1000
5 WHERE Ename = 'BLAKE';

```

1 row updated.

SQL> SELECT \* FROM Emp WHERE Ename = 'BLAKE';

```

      EMPNO ENAME      JOB      MGR HIREDATE      SAL
COMM      DEPTNO
-----
-
      7698 BLAKE      ANALYST      7839 01-MAY-81      3850
30

```

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```

SQL> UPDATE Emp
2 SET Deptno =
3   (
4   SELECT Deptno
5   FROM Emp
6   WHERE Empno = 7788
7   )
8 WHERE Job =
9   (
10  SELECT Job
11  FROM Emp
12  WHERE Empno = 7788
13  );

```

2 rows updated.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

```
SQL> UPDATE Emp
  2  SET
  3  Job =
  4  (
  5  SELECT Job, Deptno
  6  FROM Emp
  7  WHERE Empno = 7499
  8  ),
  9  Deptno =
 10  (
 11  SELECT Deptno
 12  FROM Emp
 13  WHERE Empno = 7499
 14  )
 15  WHERE Empno = 7698;
      SELECT Job, Deptno
      *
```

ERROR at line 5:  
ORA-00913: too many values

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

```
  1  UPDATE Emp
  2  SET
  3  Job =
  4  (
  5  SELECT Job
  6  FROM Emp
  7  WHERE Empno = 7499
  8  ),
  9  Deptno =
 10  (
 11  SELECT Deptno
 12  FROM Emp
 13  WHERE Empno = 7499
 14  )
 15* WHERE Empno = 7698
SQL> /
```

1 row updated.

```
SQL> UPDATE Emp
  2  SET
  3  (Job, Deptno) =
  4  (
  5  SELECT Job, Deptno
  6  FROM Emp
  7  WHERE Empno = 7499
  8  )
```

```
9 WHERE Empno = 7698;
```

1 row updated.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> UPDATE Emp
  2 SET Sal = Sal * 1.10
  3 WHERE Deptno =
  4 (
  5 SELECT Deptno
  6 FROM Dept
  7 WHERE Loc = 'CHICAGO'
  8 );
```

6 rows updated.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> UPDATE Emp E1
  2 SET Deptno =
  3 (
  4 SELECT Deptno
  5 FROM Dept
  6 WHERE Loc = 'DALLAS'
  7 ),
  8 (Sal, Comm) =
  9 (
 10 SELECT
 11 1.1 * AVG(Sal),
 12 1.5 * AVG(Comm)
 13 FROM Emp E2
 14 WHERE E1.Deptno = E2.Deptno
 15 )
 16 WHERE Deptno IN
 17 (
 18 SELECT Deptno
 19 FROM Dept
 20 WHERE Loc = 'NEW YORK' OR Loc = 'BOSTON'
 21 );
```

3 rows updated.

```
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

SQL> cl scr

```
SQL> CREATE TABLE SampDEF
  2  (
  3    SampID NUMBER(2) DEFAULT 99,
  4    SampName VARCHAR2(10) DEFAULT 'NOT GIVEN',
  5    SampDate DATE DEFAULT SYSDATE
  6  );
```

Table created.

```
SQL> INSERT INTO SampDEF
  2  VALUES(1, 'SAMPLE01', '01-JUN-15');
```

1 row created.

```
SQL> INSERT INTO SampDEF
  2  VALUES(2, 'SAMPLE02', '02-JUN-15');
```

1 row created.

```
SQL> INSERT INTO SampDEF
  2  VALUES(3, 'SAMPLE03', '03-JUN-15');
```

1 row created.

```
SQL> SELECT * FROM SampDEF;
```

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	01-JUN-15
2	SAMPLE02	02-JUN-15
3	SAMPLE03	03-JUN-15

```
SQL> UPDATE SampDEF
  2  SET SampID = DEFAULT
  3  WHERE SampID = 3;
```

1 row updated.

```
SQL> SELECT * FROM SampDEF;
```

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	01-JUN-15
2	SAMPLE02	02-JUN-15
99	SAMPLE03	03-JUN-15

```
SQL> UPDATE SampDEF
  2  SET SampName = DEFAULT
  3  WHERE SampID = 2;
```



1 row updated.

SQL> SELECT \* FROM SampDEF;

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	01-JUN-15
2	NOT GIVEN	02-JUN-15
99	SAMPLE03	03-JUN-15

SQL> UPDATE SampDEF  
2 SET SampDate = DEFAULT  
3 WHERE SampID = 1;

1 row updated.

SQL> SELECT \* FROM SampDEF;

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	15-JUN-15
2	NOT GIVEN	02-JUN-15
99	SAMPLE03	03-JUN-15

SQL> INSERT INTO SampDEF  
2 VALUES(NULL, NULL, NULL);

1 row created.

SQL> INSERT INTO SampDEF  
2 VALUES(DEFAULT, DEFAULT, DEFAULT);

1 row created.

SQL> SELECT \* FROM SampDEF;

SAMPID	SAMPNAME	SAMPDATE
1	SAMPLE01	15-JUN-15
2	NOT GIVEN	02-JUN-15
99	SAMPLE03	03-JUN-15
99	NOT GIVEN	15-JUN-15

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT Deptno, SUM(Sal)

```
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

```
SQL> UPDATE Emp
2 SET Sal = Sal + 1000
3 WHERE Deptno = 10;
```

3 rows updated.

```
SQL> rollback;
```

Rollback complete.

```
SQL> cl scr
```

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

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

```
SQL> VARIABLE BDept10SalSum NUMBER
SQL> UPDATE Emp
2 SET Sal = Sal + 1000
3 WHERE Deptno = 10
4 RETURNING SUM(Sal) INTO :BDept10SalSum;
```

3 rows updated.

```
SQL> PRINT BDept10SalSum
```

```
BDEPT10SALSUM
-----
11750
```

```
SQL> SELECT :BDept10SalSum FROM DUAL;
```

```
:BDEPT10SALSUM
-----
11750
```

```
SQL> VARIABLE BDept10SalAVG NUMBER
```

```
SQL> UPDATE Emp
2 SET Sal = Sal + 1000
```

```
3 WHERE Deptno = 10
4 RETURNING SUM(Sal), AVG(Sal) INTO :BDept10SalSum, :BDept10SalAVG;
```

3 rows updated.

```
SQL> PRINT BDept10SalSum
```

```
BDEPT10SALSUM
-----
          14750
```

```
SQL> PRINT BDept10SalAVG
```

```
BDEPT10SALAVG
-----
    4916.66667
```

```
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> CREATE TABLE MyBonus
2  (
3    Empno NUMBER,
4    Bonus NUMBER DEFAULT 100
5  );
```

Table created.

```
SQL> SELECT * FROM MyBonus;
```

no rows selected

```
SQL> INSERT INTO MyBonus(Empno)
2  (
3    SELECT E.Empno
4    FROM Emp E
5    WHERE Job = 'SALESMAN'
6  );
```

4 rows created.

```
SQL> SELECT * FROM MyBonus;
```

EMPNO	BONUS
7654	100
7499	100
7844	100
7521	100

```

SQL> MERGE INTO MyBonus B
  2 USING
  3 (
  4   SELECT Empno, Sal, Deptno
  5   FROM Emp
  6   WHERE Deptno = 30
  7   ) S
  8 ON
  9 (
10   B.Empno = S.Empno
11   )
12 WHEN MATCHED THEN
13 UPDATE
14 SET B.Bonus = B.Bonus + S.Sal * 0.1
15 DELETE
16 WHERE (S.Sal > 4000)
17 WHEN NOT MATCHED THEN
18 INSERT(B.Empno, B.Bonus)
19 VALUES(S.Empno, S.Sal * 0.1)
20 WHERE(S.Sal <= 4000);

```

6 rows merged.

```
SQL> SELECT * FROM MyBonus;
```

EMPNO	BONUS
7654	225
7499	260
7844	250
7521	225
7698	285
7900	95

6 rows selected.

```
SQL> SPOOL OFF
```



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**Date : 22<sup>nd</sup> June 2015  
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