



Sathish Yellanki

# NEW BATCH FOR **ORACLE** **UTILITIES**

**Batch Starts on 06th Sep 2018**

 **Time: 5pm-6pm**

## Utilities Covered

- SQL\* Loader
- UTL File
- External Tables
- Regular Expressions
- Dynamic SQL
- Advance SQL Functions
- Oracle Pragmas
- Bulk Collect & Bulk Loading

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> CREATE OR REPLACE PACKAGE EmpResultSet
2 AS
3 TYPE EmpRefCursor
4 IS REF CURSOR;
5 END EmpResultSet;
6 /
```

Package created.

```
SQL> CREATE OR REPLACE FUNCTION FunctionEmpResultSet
2 RETURN EmpResultSet.EmpRefCursor
3 IS
4 V_EmpResultSet EmpResultSet.EmpRefCursor;
5 Emp_SQLSMTMT VARCHAR2(100);
6 BEGIN
7 Emp_SQLSMTMT := 'SELECT * FROM Emp';
8 OPEN V_EmpResultSet
9 FOR
10 Emp_SQLSMTMT;
11 RETURN V_EmpResultSet;
12 END FunctionEmpResultSet;
13 /
```

Function created.

SQL> SELECT FunctionEmpResultSet ResultSet FROM DUAL;

RESULTSET

CURSOR STATEMENT : 1

CURSOR STATEMENT : 1

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
10	7839	KING	PRESIDENT	17-NOV-81	5000
30	7698	BLAKE	MANAGER	7839 01-MAY-81	2850
10	7782	CLARK	MANAGER	7839 09-JUN-81	2450
20	7566	JONES	MANAGER	7839 02-APR-81	2975

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```
.....
1400      7654 MARTIN      SALESMAN      7698 28-SEP-81      1250
          30
300      7499 ALLEN      SALESMAN      7698 20-FEB-81      1600
          30
0        7844 TURNER     SALESMAN      7698 08-SEP-81      1500
          30
30       7900 JAMES      CLERK         7698 03-DEC-81       950
500      7521 WARD      SALESMAN      7698 22-FEB-81      1250
          30
20       7902 FORD      ANALYST       7566 03-DEC-81      3000
20       7369 SMITH     CLERK         7902 17-DEC-80       800
20       7788 SCOTT     ANALYST       7566 09-DEC-82      3000
20       7876 ADAMS     CLERK         7788 12-JAN-83      1100
20       7934 MILLER    CLERK         7782 23-JAN-82      1300
10
```

14 rows selected.

```
SQL> CREATE OR REPLACE FUNCTION FunctionEmpResultSet(PQuery IN VARCHAR2)
  2  RETURN EmpResultSet.EmpRefCursor
  3  IS
  4  V_EmpResultSet EmpResultSet.EmpRefCursor;
  5  Emp_SQLSMTMT VARCHAR2(1000);
  6  BEGIN
  7  Emp_SQLSMTMT := PQuery;
  8  OPEN V_EmpResultSet
  9  FOR
10  Emp_SQLSMTMT;
11  RETURN V_EmpResultSet;
12  END FunctionEmpResultSet;
13  /
```

Function created.

```
SQL> SELECT FunctionEmpResultSet('&GiveQuery') ResultSet FROM DUAL;
Enter value for givequery: SELECT * FROM Emp
```

RESULTSET

-----  
CURSOR STATEMENT : 1

-----  
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CURSOR STATEMENT : 1

COMM	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
		DEPTNO				
	7839	KING	PRESIDENT		17-NOV-81	5000
10	7698	BLAKE	MANAGER	7839	01-MAY-81	2850
30	7782	CLARK	MANAGER	7839	09-JUN-81	2450
10	7566	JONES	MANAGER	7839	02-APR-81	2975
20	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250
1400		30				
	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600
300		30				
	7844	TURNER	SALESMAN	7698	08-SEP-81	1500
0		30				
	7900	JAMES	CLERK	7698	03-DEC-81	950
30						
	7521	WARD	SALESMAN	7698	22-FEB-81	1250
500		30				
	7902	FORD	ANALYST	7566	03-DEC-81	3000
20						
	7369	SMITH	CLERK	7902	17-DEC-80	800
20						
	7788	SCOTT	ANALYST	7566	09-DEC-82	3000
20						
	7876	ADAMS	CLERK	7788	12-JAN-83	1100
20						
	7934	MILLER	CLERK	7782	23-JAN-82	1300
10						

14 rows selected.

SQL> /  
Enter value for givequery: SELECT \* FROM Dept

RESULTSET

CURSOR STATEMENT : 1

CURSOR STATEMENT : 1

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```
.....
DEPTNO DNAME LOC
-----
10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
30 SALES CHICAGO
40 OPERATIONS BOSTON
```

```
SQL> /
Enter value for givequery: SELECT * FROM SalGrade
```

RESULTSET

-----

CURSOR STATEMENT : 1

```
CURSOR STATEMENT : 1

GRADE      LOSAL      HISAL
-----
1          700       1200
2         1201       1400
3         1401       2000
4         2001       3000
5         3001       9999
```

```
SQL> /
Enter value for givequery: SELECT Ename, Job, Dname, Loc FROM Emp, Dept
WHERE Emp.Deptno = Dept.Deptno
```

RESULTSET

-----

CURSOR STATEMENT : 1

```
CURSOR STATEMENT : 1

ENAME      JOB      DNAME      LOC
-----
KING       PRESIDENT ACCOUNTING NEW YORK
CLARK      MANAGER  ACCOUNTING NEW YORK
MILLER     CLERK    ACCOUNTING NEW YORK
ADAMS      CLERK    RESEARCH   DALLAS
SCOTT      ANALYST  RESEARCH   DALLAS
SMITH      CLERK    RESEARCH   DALLAS
FORD       ANALYST  RESEARCH   DALLAS
JONES      MANAGER  RESEARCH   DALLAS
WARD       SALESMAN SALES      CHICAGO
```

-----

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---

JAMES	CLERK	SALES	CHICAGO
ALLEN	SALESMAN	SALES	CHICAGO
MARTIN	SALESMAN	SALES	CHICAGO
BLAKE	MANAGER	SALES	CHICAGO
TURNER	SALESMAN	SALES	CHICAGO

14 rows selected.

SQL> cl scr

```
SQL> CREATE OR REPLACE PACKAGE Employee_RefCur_PKG
 2 AS
 3 TYPE EmpCursor
 4 IS REF CURSOR;
 5 PROCEDURE
 6 EmployeeSearch
 7 (
 8   IN_EName IN VARCHAR2,
 9   OUT_EmpCursor OUT EmpCursor
10 );
11 END Employee_RefCur_PKG;
12 /
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY Employee_RefCur_PKG
 2 AS
 3 PROCEDURE
 4 EmployeeSearch
 5 (
 6   IN_EName IN VARCHAR2,
 7   OUT_EmpCursor OUT EmpCursor
 8 )
 9 IS
10 BEGIN
11 OPEN OUT_EmpCursor
12 FOR
13 SELECT
14   Emp.Empno,
15   Emp.Ename,
16   Emp.Job,
17   Emp.Sal,
18   Dept.Dname,
19   Dept.Loc
20 FROM Emp, Dept
21 WHERE Ename LIKE UPPER('%' || IN_EName || '%')
```

---

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```
22          AND
23      Emp.Deptno = Dept.Deptno
24  ORDER BY UPPER(Emp.Ename);
25  END EmployeeSearch;
26  END Employee_RefCur_PKG;
27  /
```

Package body created.

```
SQL> DECLARE
  2  O_EmpCursor Employee_RefCur_PKG.EmpCursor;
  3  TYPE RefData IS RECORD
  4  (
  5      Empno Emp.Empno%TYPE,
  6      Ename Emp.Ename%TYPE,
  7      Job Emp.Job%TYPE,
  8      Sal Emp.Sal%TYPE,
  9      Dname Dept.Dname%TYPE,
 10      Loc Dept.Loc%TYPE
 11  );
 12  MyRefData RefData;
 13  IN_EName VARCHAR2(10) := '&GName';
 14  TYPE MyArray
 15  IS
 16  TABLE OF
 17  MyRefData%TYPE;
 18  V_MyArray MyArray;
 19  BEGIN
 20  Employee_RefCur_PKG.EmployeeSearch(IN_EName, O_EmpCursor);
 21  FETCH O_EmpCursor BULK COLLECT INTO V_MyArray;
 22  CLOSE O_EmpCursor;
 23  FOR LoopIndex IN 1 .. V_MyArray.Count
 24  LOOP
 25  DBMS_OUTPUT.PUT_LINE(V_MyArray(LoopIndex).Empno||',
'||V_MyArray(LoopIndex).Ename||', '|| V_MyArray(LoopIndex).Job||',
'||V_MyArray(LoopIndex).Sal||', '||V_MyArray(LoopIndex).Dname||', '||
V_MyArray(LoopIndex).Loc);
 26  END LOOP;
 27  END;
 28  /
```

```
Enter value for gname: Smith
7369, SMITH, CLERK, 800, RESEARCH, DALLAS
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gname: A
```

---

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```
7876, ADAMS, CLERK, 1100, RESEARCH, DALLAS
7499, ALLEN, SALESMAN, 1600, SALES, CHICAGO
7698, BLAKE, MANAGER, 2850, SALES, CHICAGO
7782, CLARK, MANAGER, 2450, ACCOUNTING, NEW YORK
7900, JAMES, CLERK, 950, SALES, CHICAGO
7654, MARTIN, SALESMAN, 1250, SALES, CHICAGO
7521, WARD, SALESMAN, 1250, SALES, CHICAGO
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> CREATE OR REPLACE PACKAGE EmpSearchPackage
 2  IS
 3  PROCEDURE EmpInfo(I_Deptno IN Emp.Deptno%TYPE);
 4  PROCEDURE EmpInfo(I_Job IN VARCHAR);
 5  PROCEDURE EmpInfo(I_MGR IN Emp.MGR%TYPE, I_MSGIN CHAR);
 6  END EmpSearchPackage;
 7  /
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY EmpSearchPackage
 2  IS
 3  FUNCTION EmpExp(V_Empno NUMBER)
 4  RETURN NUMBER
 5  IS
 6  V_HireDate Emp.HireDate%TYPE;
 7  V_Exp NUMBER(4, 2) := 1;
 8  BEGIN
 9  SELECT HireDate INTO V_HireDate
10  FROM Emp
11  WHERE Empno = V_Empno;
12  V_Exp := MONTHS_BETWEEN(SYSDATE, V_HireDate) / 12;
13  RETURN V_Exp;
14  END EmpExp;
15  PROCEDURE EmpInfo(I_Deptno IN Emp.Deptno%TYPE)
16  AS
17  V_EmpExp NUMBER;
18  CURSOR EmpInfoCursor IS
19  SELECT Empno, Ename, Job, Sal, Comm
20  FROM Emp
21  WHERE Deptno = I_Deptno;
22  EmpRecord EmpInfoCursor%ROWTYPE;
23  BEGIN
24  OPEN EmpInfoCursor;
25  LOOP
```

---

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```
26  FETCH EmpInfoCursor INTO EmpRecord;
27  EXIT WHEN EmpInfoCursor%NOTFOUND;
28  DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
29  DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
30  V_EmpExp := EmpExp(EmpRecord.Empno);
31  DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
32  DBMS_OUTPUT.PUT_LINE('Employee Comission :
'||NVL(TO_CHAR(EmpRecord.Comm), 'NO COMMISSION'));
33  DBMS_OUTPUT.PUT_LINE('Employee Total Salary : '||(EmpRecord.Sal +
NVL(EmpRecord.Comm, 0)));
34  DBMS_OUTPUT.PUT_LINE('Employee Experience : '||V_EmpExp);
35  DBMS_OUTPUT.PUT_LINE('*****');
36  END LOOP;
37  CLOSE EmpInfoCursor;
38  END EmpInfo;
39  PROCEDURE EmpInfo(I_Job IN VARCHAR)
40  AS
41  V_EmpExp NUMBER;
42  CURSOR EmpInfoCursor IS
43  SELECT Empno, Ename, Job, Sal, Comm
44  FROM Emp
45  WHERE Job = I_Job;
46  EmpRecord EmpInfoCursor%ROWTYPE;
47  BEGIN
48  OPEN EmpInfoCursor;
49  LOOP
50  FETCH EmpInfoCursor INTO EmpRecord;
51  EXIT WHEN EmpInfoCursor%NOTFOUND;
52  DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
53  DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
54  V_EmpExp := EmpExp(EmpRecord.Empno);
55  DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
56  DBMS_OUTPUT.PUT_LINE('Employee Comission :
'||NVL(TO_CHAR(EmpRecord.Comm), 'NO COMMISSION'));
57  DBMS_OUTPUT.PUT_LINE('Employee Total Salary : '||(EmpRecord.Sal +
NVL(EmpRecord.Comm, 0)));
58  DBMS_OUTPUT.PUT_LINE('Employee Experience : '||V_EmpExp);
59  DBMS_OUTPUT.PUT_LINE('*****');
60  END LOOP;
61  CLOSE EmpInfoCursor;
62  END EmpInfo;
63  PROCEDURE EmpInfo(I_MGR IN Emp.MGR%TYPE, I_MSGIN CHAR)
64  AS
65  V_EmpExp NUMBER;
66  CURSOR EmpInfoCursor IS
67  SELECT Empno, Ename, Job, Sal, Comm
68  FROM Emp
```

---

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```
69 WHERE MGR = I_MGR;
70 EmpRecord EmpInfoCursor%ROWTYPE;
71 BEGIN
72 OPEN EmpInfoCursor;
73 LOOP
74 FETCH EmpInfoCursor INTO EmpRecord;
75 EXIT WHEN EmpInfoCursor%NOTFOUND;
76 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
77 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
78 V_EmpExp := EmpExp(EmpRecord.Empno);
79 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
80 DBMS_OUTPUT.PUT_LINE('Employee Comission :
'||NVL(TO_CHAR(EmpRecord.Comm), 'NO COMMISSION'));
81 DBMS_OUTPUT.PUT_LINE('Employee Total Salary : '||(EmpRecord.Sal +
NVL(EmpRecord.Comm, 0)));
82 DBMS_OUTPUT.PUT_LINE('Employee Experience : '||V_EmpExp);
83 DBMS_OUTPUT.PUT_LINE('*****');
84 END LOOP;
85 CLOSE EmpInfoCursor;
86 END EmpInfo;
87 END EmpSearchPackage;
88 /
```

Package body created.

SQL> EXEC EmpSearchPackage.EmpInfo(10)

```
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Comission : NO COMMISSION
Employee Total Salary : 5000
Employee Experience : 36.8
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission : NO COMMISSION
Employee Total Salary : 2450
Employee Experience : 37.24
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission : NO COMMISSION
Employee Total Salary : 1300
Employee Experience : 36.61
*****
```

---

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PL/SQL procedure successfully completed.

SQL> EXEC EmpSearchPackage.EmpInfo('CLERK')

Employee Name : JAMES

Employee Job : CLERK

Employee Salary : 950

Employee Commission : NO COMMISSION

Employee Total Salary : 950

Employee Experience : 36.75

\*\*\*\*\*

Employee Name : SMITH

Employee Job : CLERK

Employee Salary : 800

Employee Commission : NO COMMISSION

Employee Total Salary : 800

Employee Experience : 37.71

\*\*\*\*\*

Employee Name : ADAMS

Employee Job : CLERK

Employee Salary : 1100

Employee Commission : NO COMMISSION

Employee Total Salary : 1100

Employee Experience : 35.64

\*\*\*\*\*

Employee Name : MILLER

Employee Job : CLERK

Employee Salary : 1300

Employee Commission : NO COMMISSION

Employee Total Salary : 1300

Employee Experience : 36.61

\*\*\*\*\*

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> CREATE OR REPLACE TRIGGER WeekEndCheck

2 AFTER INSERT OR UPDATE OR DELETE

3 ON Emp

4 DECLARE

5 V\_WeekDay VARCHAR2(100);

6 BEGIN

7 V\_WeekDay := TO\_CHAR(SYSDATE, 'DY');

8 IF V\_WeekDay = 'SAT' OR V\_WeekDay = 'SUN' THEN

9 RAISE\_APPLICATION\_ERROR(-20010, 'An Illegal Intrusion into the System was Detected.');

---

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```
10 END IF;
11 END;
12 /
```

Trigger created.

```
SQL> DELETE FROM Emp WHERE Ename = 'ADAMS';
```

1 row deleted.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> DELETE FROM Emp WHERE Ename = 'ADAMS';
DELETE FROM Emp WHERE Ename = 'ADAMS'
      *
```

ERROR at line 1:

ORA-20010: An Illegal Intrusion into the System was Detected.

ORA-06512: at "SCOTT.WEEKENDCHECK", line 6

ORA-04088: error during execution of trigger 'SCOTT.WEEKENDCHECK'

```
SQL> cl scr
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> DROP TRIGGER WEEKENDCHECK;
```

Trigger dropped.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE TRIGGER IllegalTime
2 BEFORE INSERT OR UPDATE OR DELETE
3 ON Emp
4 DECLARE
5 V_Time NUMBER;
6 BEGIN
7 V_Time := TO_CHAR(SYSDATE, 'HH24');
8 IF V_Time NOT BETWEEN 10 AND 17 THEN
9 RAISE_APPLICATION_ERROR(-20011, 'Illegal Intrusion, Not Business
Hours. ');
10 END IF;
11 END;
```

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12 /

Trigger created.

SQL> ELETE FROM Emp WHERE Ename = 'ADAMS';  
SP2-0734: unknown command beginning "ELETE FROM..." - rest of line ignored.

SQL> DELETE FROM Emp WHERE Ename = 'ADAMS';  
DELETE FROM Emp WHERE Ename = 'ADAMS'  
\*

ERROR at line 1:  
ORA-20011: Illegal Intrusion, Not Business Hours.  
ORA-06512: at "SCOTT.ILLEGALTIME", line 6  
ORA-04088: error during execution of trigger 'SCOTT.ILLEGALTIME'

SQL> DELETE FROM Emp WHERE Ename = 'ADAMS';

1 row deleted.

SQL> SPOOL OFF

---

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