



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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SQL> cl scr

SQL> <<Factorial>>

```
2  DECLARE
3  Num NUMBER := &Num;
4  Fact NUMBER(4) := 1;
5  BEGIN
6  FOR MyIndex IN REVERSE 1..Num
7  LOOP
8  Fact := Fact * MyIndex;
9  END LOOP;
10 DBMS_OUTPUT.PUT_LINE('The Factorial of '||Num||' is : '||Fact);
11 END Factorial;
12 /
```

Enter value for num: 5

The Factorial of 5 is : 120

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE Factorial(Num NUMBER)

```
2  IS
3  Fact NUMBER(4) := 1;
4  BEGIN
5  FOR MyIndex IN REVERSE 1..Num
6  LOOP
7  Fact := Fact * MyIndex;
8  END LOOP;
9  DBMS_OUTPUT.PUT_LINE('The Factorial of '||Num||' is : '||Fact);
10 END Factorial;
11 /
```

Procedure created.

SQL> EXEC Factorial(5)

The Factorial of 5 is : 120

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE FUNCTION Factorial(Num NUMBER)

```
2  RETURN NUMBER
3  IS
4  Fact NUMBER(4) := 1;
5  BEGIN
6  FOR MyIndex IN REVERSE 1..Num
7  LOOP
8  Fact := Fact * MyIndex;
```

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```
9  END LOOP;
10 RETURN Fact;
11 END Factorial;
12 /
CREATE OR REPLACE FUNCTION Factorial(Num NUMBER)
*
ERROR at line 1:
ORA-00955: name is already used by an existing object
```

```
SQL> DROP PROCEDURE Factorial;
```

Procedure dropped.

```
SQL> CREATE OR REPLACE FUNCTION Factorial(Num NUMBER)
2  RETURN NUMBER
3  IS
4  Fact NUMBER(4) := 1;
5  BEGIN
6  FOR MyIndex IN REVERSE 1..Num
7  LOOP
8  Fact := Fact * MyIndex;
9  END LOOP;
10 RETURN Fact;
11 END Factorial;
12 /
```

Function created.

```
SQL> EXEC Factorial(5)
BEGIN Factorial(5); END;
*
ERROR at line 1:
ORA-06550: line 1, column 7:
PLS-00221: 'FACTORIAL' is not a procedure or is undefined
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored
```

```
SQL> BEGIN
2  Factorial(5);
3  END;
4  /
Factorial(5);
*
ERROR at line 2:
ORA-06550: line 2, column 1:
PLS-00221: 'FACTORIAL' is not a procedure or is undefined
```

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ORA-06550: line 2, column 1:
PL/SQL: Statement ignored

SQL> cl scr

SQL> SELECT 'The Factorial of '||&GiveVal||' is : '||Factorial(&GiveVal)
Factorial
2 FROM DUAL;
Enter value for giveval: 5
Enter value for giveval: 5

FACTORIAL

The Factorial of 5 is : 120

SQL> /
Enter value for giveval: 10
Enter value for giveval: 10
SELECT 'The Factorial of '||10||' is : '||Factorial(10) Factorial
*
ERROR at line 1:
ORA-06502: PL/SQL: numeric or value error: number precision too large
ORA-06512: at "SCOTT.FACTORIAL", line 8

SQL> cl scr

SQL> SELECT Factorial(5) FactVal FROM DUAL;

FACTVAL

120

SQL> CREATE TABLE SampFact
2 (
3 SampID NUMBER(2),
4 FactVal NUMBER(5)
5);

Table created.

SQL> INSERT INTO SampFact VALUES(1, Factorial(1));

1 row created.

SQL> INSERT INTO SampFact VALUES(2, Factorial(2));1 row created.

SQL> INSERT INTO SampFact VALUES(3, Factorial(3));

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1 row created.

```
SQL> INSERT INTO SampFact VALUES(4, Factorial(4));
```

1 row created.

```
SQL> INSERT INTO SampFact VALUES(5, Factorial(5));
```

1 row created.

```
SQL> SELECT * FROM SampFact;
```

SAMPID	FACTVAL
1	1
2	2
3	6
4	24
5	120

```
SQL> UPDATE SampFact SET FactVal = Factorial(5) WHERE SampID = 4;
```

1 row updated.

```
SQL> SELECT * FROM SampFact;
```

SAMPID	FACTVAL
1	1
2	2
3	6
4	120
5	120

```
SQL> UPDATE SampFact SET FactVal = Factorial(5) WHERE FactVal =  
Factorial(3);
```

1 row updated.

```
SQL> SELECT * FROM SampFact;
```

SAMPID	FACTVAL
1	1
2	2
3	120

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4	120
5	120

```
SQL> DELETE FROM SampFact WHERE FactVal = Factorial(5);
```

3 rows deleted.

```
SQL> SELECT * FROM SampFact;
```

SAMPID	FACTVAL
1	1
2	2

```
SQL> DECLARE
```

```
2 V_Factorial NUMBER(4) := 0;
```

```
3 BEGIN
```

```
4 V_Factorial := Factorial(5);
```

```
5 DBMS_OUTPUT.PUT_LINE('The Factorial is : '||V_Factorial);
```

```
6 END;
```

```
7 /
```

The Factorial is : 120

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE FUNCTION Combination(Num1 NUMBER, Num2 NUMBER)
```

```
2 RETURN NUMBER
```

```
3 IS
```

```
4 Combi NUMBER(4,2) := 1;
```

```
5 BEGIN
```

```
6 Combi := (Factorial(Num1) / (Factorial(Num1 - Num2) *
```

```
Factorial(Num2)));
```

```
7 RETURN Combi;
```

```
8 END Combination;
```

```
9 /
```

Function created.

```
SQL> SELECT Combination(6, 2) Combi FROM DUAL;
```

COMBI
15

```
SQL> cl scr
```

```
SQL> <<EmpExp>>
```

```
2 DECLARE
```

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```
3  V_Empno NUMBER := &GEmpno;
4  V_HireDate Emp.HireDate%TYPE;
5  V_Exp NUMBER(4, 2) := 1;
6  BEGIN
7  SELECT HireDate INTO V_HireDate
8  FROM Emp
9  WHERE Empno = V_Empno;
10 V_Exp := MONTHS_BETWEEN(SYSDATE, V_HireDate) / 12;
11 DBMS_OUTPUT.PUT_LINE('The Experience : '||V_Exp);
12 END EmpExp;
13 /
```

Enter value for gempno: 7654

The Experience : 36.92

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE FUNCTION EmpExp(V_Empno NUMBER)
2  RETURN NUMBER
3  IS
4  V_HireDate Emp.HireDate%TYPE;
5  V_Exp NUMBER(4, 2) := 1;
6  BEGIN
7  SELECT HireDate INTO V_HireDate
8  FROM Emp
9  WHERE Empno = V_Empno;
10 V_Exp := MONTHS_BETWEEN(SYSDATE, V_HireDate) / 12;
11 RETURN V_Exp;
12 END EmpExp;
13 /
```

Function created.

```
SQL> SELECT Empno, Ename, HireDate, EmpExp(7566) EmpExp
2  FROM Emp
3  WHERE Empno = 7566;
```

EMPNO	ENAME	HIREDATE	EMPEXP
7566	JONES	02-APR-81	37.41

```
SQL> SELECT Empno, Ename, HireDate, EmpExp(Empno) EmpExp
2  FROM Emp;
```

EMPNO	ENAME	HIREDATE	EMPEXP
7839	KING	17-NOV-81	36.79
7698	BLAKE	01-MAY-81	37.33
7782	CLARK	09-JUN-81	37.23

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7566	JONES	02-APR-81	37.41
7654	MARTIN	28-SEP-81	36.92
7499	ALLEN	20-FEB-81	37.53
7844	TURNER	08-SEP-81	36.98
7900	JAMES	03-DEC-81	36.74
7521	WARD	22-FEB-81	37.52
7902	FORD	03-DEC-81	36.74
7369	SMITH	17-DEC-80	37.7
7788	SCOTT	09-DEC-82	35.73
7876	ADAMS	12-JAN-83	35.63
7934	MILLER	23-JAN-82	36.6

14 rows selected.

```
SQL> CREATE OR REPLACE FUNCTION EmpTotSal(V_Empno NUMBER)
  2  RETURN NUMBER
  3  IS
  4  V_Sal Emp.Sal%TYPE;
  5  V_Comm Emp.Comm%TYPE;
  6  V_TotSal NUMBER(8, 2);
  7  BEGIN
  8  SELECT Sal, Comm INTO V_Sal, V_Comm
  9  FROM Emp
 10  WHERE Empno = V_Empno;
 11  V_TotSal := V_Sal + NVL(V_Comm, 0);
 12  RETURN TotSal;
 13  END EmpTotSal;
 14  /
```

Warning: Function created with compilation errors.

```
SQL> SHOW ERRORS
Errors for FUNCTION EMPOTSAL:
```

LINE/COL ERROR

```
12/1      PL/SQL: Statement ignored
12/8      PLS-00201: identifier 'TOTSAL' must be declared
```

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

```
 1  CREATE OR REPLACE FUNCTION EmpTotSal(V_Empno NUMBER)
 2  RETURN NUMBER
 3  IS
 4  V_Sal Emp.Sal%TYPE;
 5  V_Comm Emp.Comm%TYPE;
 6  V_TotSal NUMBER(8, 2);
```

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```
7 BEGIN
8 SELECT Sal, Comm INTO V_Sal, V_Comm
9 FROM Emp
10 WHERE Empno = V_Empno;
11 V_TotSal := V_Sal + NVL(V_Comm, 0);
12 RETURN V_TotSal;
13* END EmpTotSal;
SQL> /
```

Function created.

```
SQL> SELECT Ename, Sal, Comm, EmpTotSal(7566) TotSal
2 FROM Emp
3 WHERE Empno = 7566;
```

ENAME	SAL	COMM	TOTSAL
JONES	2975		2975

```
SQL> SELECT Ename, Sal, Comm, EmpTotSal(Empno) TotSal
2 FROM Emp;
```

ENAME	SAL	COMM	TOTSAL
KING	5000		5000
BLAKE	2850		2850
CLARK	2450		2450
JONES	2975		2975
MARTIN	1250	1400	2650
ALLEN	1600	300	1900
TURNER	1500	0	1500
JAMES	950		950
WARD	1250	500	1750
FORD	3000		3000
SMITH	800		800
SCOTT	3000		3000
ADAMS	1100		1100
MILLER	1300		1300

14 rows selected.

```
SQL> SELECT Ename, HireDate, EmpExp(Empno) EmpExp, Sal, Comm,
EmpTotSal(Empno) TotSal
2 FROM Emp;
```

ENAME	HIREDATE	EMPEXP	SAL	COMM	TOTSAL
-------	----------	--------	-----	------	--------

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KING	17-NOV-81	36.79	5000		5000
BLAKE	01-MAY-81	37.33	2850		2850
CLARK	09-JUN-81	37.23	2450		2450
JONES	02-APR-81	37.41	2975		2975
MARTIN	28-SEP-81	36.92	1250	1400	2650
ALLEN	20-FEB-81	37.53	1600	300	1900
TURNER	08-SEP-81	36.98	1500	0	1500
JAMES	03-DEC-81	36.74	950		950
WARD	22-FEB-81	37.52	1250	500	1750
FORD	03-DEC-81	36.74	3000		3000
SMITH	17-DEC-80	37.7	800		800
SCOTT	09-DEC-82	35.73	3000		3000
ADAMS	12-JAN-83	35.63	1100		1100
MILLER	23-JAN-82	36.6	1300		1300

14 rows selected.

```
SQL> CREATE OR REPLACE PROCEDURE
  2  EmpInfo(I_Deptno IN NUMBER)
  3  AS
  4  CURSOR EmpInfoCursor
  5  IS
  6  SELECT Empno, Ename, Job, Sal, Comm
  7  FROM Emp
  8  WHERE Deptno = I_Deptno;
  9  EmpRecord EmpInfoCursor%ROWTYPE;
 10  NEmployees NUMBER := 0;
 11  TSalary NUMBER := 0;
 12  AVGSalary NUMBER(7,2) := 0;
 13  MAXSalary NUMBER(7,2) := 0;
 14  V_Exp NUMBER(4,2) := 1;
 15  BEGIN
 16  OPEN EmpInfoCursor;
 17  LOOP
 18  FETCH EmpInfoCursor INTO EmpRecord;
 19  EXIT WHEN EmpInfoCursor%NOTFOUND;
 20  DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
 21  DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
 22  DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
 23  DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
 24  V_Exp := EmpExp(EmpRecord.Empno);
 25  DBMS_OUTPUT.PUT_LINE('Employee's Experiance : '||V_Exp);
 26  DBMS_OUTPUT.PUT_LINE('*****');
 27  TSalary := TSalary + EmpRecord.Sal;
 28  NEmployees := NEmployees + 1;
 29  IF EmpRecord.Sal > MAXSalary THEN
 30  MAXSalary := EmpRecord.Sal;
```

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```
31 END IF;
32 END LOOP;
33 AVGSalary := TSalary / NEmployees;
34 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
35 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
36 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
37 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
38 CLOSE EmpInfoCursor;
39 END EmpInfo;
40 /
```

Procedure created.

```
SQL> EXEC EmpInfo(10)
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Commission :
Employee's Experience : 36.79
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Commission :
Employee's Experience : 37.23
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Commission :
Employee's Experience : 36.6
*****
Number of Employees : 3
Total Salary : 8750
Maximum Salary : 5000
Average Salary : 2916.67
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> CREATE OR REPLACE FUNCTION GetDeptDetails(P_Deptno NUMBER)
2 RETURN Dept%ROWTYPE
3 IS
4 V_DeptRec Dept%ROWTYPE;
5 V_Deptno Dept.Deptno%TYPE := P_Deptno;
6 BEGIN
```

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```
7  SELECT * INTO V_DeptRec
8  FROM Dept
9  WHERE Deptno = V_Deptno;
10 RETURN V_DeptRec;
11 END GetDeptDetails;
12 /
```

Function created.

```
SQL> SELECT GetDeptDetails(10) FROM DUAL;
SELECT GetDeptDetails(10) FROM DUAL
*
```

ERROR at line 1:
ORA-06553: PLS-801: internal error [55018]

```
SQL> DECLARE
2  V_DeptRec Dept%ROWTYPE;
3  BEGIN
4  V_DeptRec.Deptno := &GDeptno;
5  V_DeptRec := GetDeptDetails(V_DeptRec.Deptno);
6  DBMS_OUTPUT.PUT_LINE(V_DeptRec.Deptno||' '||V_DeptRec.DName||'
'|V_DeptRec.Loc);
7  END;
8  /
```

Enter value for gdeptno: 10
10 ACCOUNTING NEW YORK

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PROCEDURE
2  EmpInfo(I_Deptno IN NUMBER)
3  AS
4  V_DeptRec Dept%ROWTYPE;
5  V_Exp NUMBER(4,2) := 1;
6  CURSOR EmpInfoCursor
7  IS
8  SELECT Empno, Ename, Job, Sal, Comm
9  FROM Emp
10 WHERE Deptno = I_Deptno;
11 EmpRecord EmpInfoCursor%ROWTYPE;
12 BEGIN
13 OPEN EmpInfoCursor;
14 V_DeptRec := GetDeptDetails(I_Deptno);
15 DBMS_OUTPUT.PUT_LINE('Displaying The Report of...');
```

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```
16 DBMS_OUTPUT.PUT_LINE('Department Number : '||V_DeptRec.Deptno||',
Name : '||V_DeptRec.DName||', Location : '||V_DeptRec.Loc);
17 LOOP
18 FETCH EmpInfoCursor INTO EmpRecord;
19 EXIT WHEN EmpInfoCursor%NOTFOUND;
20 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
21 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
22 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
23 DBMS_OUTPUT.PUT_LINE('Employee Comission :
'||NVL(TO_CHAR(EmpRecord.Comm), 'NO COMMISSION'));
24 V_Exp := EmpExp(EmpRecord.Empno);
25 DBMS_OUTPUT.PUT_LINE('Employee's Experiance : '||V_Exp);
26 DBMS_OUTPUT.PUT_LINE('*****');
27 END LOOP;
28 CLOSE EmpInfoCursor;
29 END EmpInfo;
30 /
```

Procedure created.

```
SQL> EXEC EmpInfo(10)
Displaying The Report of...
Department Number : 10, Name : ACCOUNTING, Location : NEW YORK
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Comission : NO COMMISSION
Employee's Experiance : 36.79
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission : NO COMMISSION
Employee's Experiance : 37.23
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission : NO COMMISSION
Employee's Experiance : 36.6
*****
```

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

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 **Time: 5pm-6pm**

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- Regular Expressions
- Dynamic SQL
- Advance SQL Functions
- Oracle Pragmas
- Bulk Collect & Bulk Loading

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