



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

Online - 500INR For Each Tool
ClassRoom - 300INR For Each Tool



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Data Modeling, Linux/Unix, Big Data**

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<http://yellankisathish.com/>

SQL> cl scr

```
SQL> CREATE OR REPLACE PACKAGE MathsBody
  2  IS
  3  FUNCTION Factorial(Num NUMBER)
  4  RETURN NUMBER;
  5  FUNCTION Combination(Num1 NUMBER, Num2 NUMBER)
  6  RETURN NUMBER;
  7  PROCEDURE ProdSeries(StartRange NUMBER);
  8  PROCEDURE PrintEvenOdd(Num1 NUMBER, Num2 NUMBER);
  9  PROCEDURE SquareArea(Side IN NUMBER);
 10  PROCEDURE CubeVolume(Radius IN NUMBER);
 11  END MathsBody;
 12  /
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY MathsBody
  2  AS
  3  FUNCTION Factorial(Num NUMBER)
  4  RETURN NUMBER
  5  IS
  6  Fact NUMBER(4) := 1;
  7  BEGIN
  8  FOR MyIndex IN REVERSE 1..Num
  9  LOOP
 10  Fact := Fact * MyIndex;
 11  END LOOP;
 12  RETURN Fact;
 13  END Factorial;
 14  FUNCTION Combination(Num1 NUMBER, Num2 NUMBER)
 15  RETURN NUMBER
 16  IS
 17  Combi NUMBER(4,2) := 1;
 18  BEGIN
 19  Combi := (Factorial(Num1) / ( Factorial(Num1-Num2) *
Factorial(Num2)));
 20  RETURN Combi;
 21  END Combination;
 22  PROCEDURE ProdSeries(StartRange NUMBER)
 23  IS
 24  Result NUMBER;
 25  BEGIN
 26  FOR MyIndex IN 1..5 LOOP
 27  Result := StartRange * MyIndex;
 28  DBMS_OUTPUT.PUT_LINE(StartRange||' X '||MyIndex||' = '|| Result);
```

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```
29  END LOOP;
30  END ProdSeries;
31  PROCEDURE PrintEvenOdd (Num1 NUMBER, Num2 NUMBER)
32  IS
33  V_Num1 NUMBER;
34  EvenValue VARCHAR2(1000);
35  OddValue VARCHAR2(1000);
36  BEGIN
37  V_Num1 := Num1;
38  WHILE V_Num1 < Num1
39  LOOP
40  IF MOD(V_Num1,2) != 0 THEN
41  OddValue := OddValue||' '||V_Num1;
42  ELSE
43  EvenValue := EvenValue||' '||V_Num1;
44  END IF;
45  V_Num1 := V_Num1 + 1;
46  END LOOP;
47  DBMS_OUTPUT.PUT_LINE('The Odd Numbers in The Series are :
'||OddValue);
48  DBMS_OUTPUT.PUT_LINE('The Even Numbers in The Series are :
'||EvenValue);
49  END PrintEvenOdd;
50  PROCEDURE SquareArea (Side IN NUMBER)
51  IS
52  BEGIN
53  DBMS_OUTPUT.PUT_LINE('Area of The Square = ' || (Side * Side) );
54  END;
55  PROCEDURE CubeVolume (Radius IN NUMBER)
56  IS
57  BEGIN
58  DBMS_OUTPUT.PUT_LINE('Volume of The Cube = ' || (Radius * Radius *
Radius));
59  END;
60  END MathsBody;
61  /
```

Package body created.

SQL> SELECT MathsBody.Factorial(5) FactVal FROM DUAL;

```
FACTVAL
-----
      120
```

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

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COMBI

15

```
SQL> CREATE OR REPLACE PACKAGE MathsBody
  2  IS
  3  --FUNCTION Factorial(Num NUMBER)
  4  --RETURN NUMBER;
  5  FUNCTION Combination(Num1 NUMBER, Num2 NUMBER)
  6  RETURN NUMBER;
  7  PROCEDURE ProdSeries(StartRange NUMBER);
  8  PROCEDURE PrintEvenOdd(Num1 NUMBER, Num2 NUMBER);
  9  PROCEDURE SquareArea(Side IN NUMBER);
 10  PROCEDURE CubeVolume(Radius IN NUMBER);
 11  END MathsBody;
 12  /
```

Package created.

```
SQL> SELECT MathsBody.Factorial(5) FactVal FROM DUAL;
SELECT MathsBody.Factorial(5) FactVal FROM DUAL
      *
```

ERROR at line 1:

ORA-00904: "MATHSBODY"."FACTORIAL": invalid identifier

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

COMBI

15

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PACKAGE EmpPackage
  2  IS
  3  PROCEDURE MyBonus;
  4  PROCEDURE FindEmp
  5  (
  6  I_Empno IN NUMBER,
  7  O_Ename OUT VARCHAR2,
  8  O_Job OUT VARCHAR2
  9  );
 10  PROCEDURE EmpInfo(I_Deptno IN NUMBER);
 11  FUNCTION EmpExp(V_Empno NUMBER)
 12  RETURN NUMBER;
 13  FUNCTION EmpGrade(I_Grade NUMBER)
```

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```
14 RETURN VARCHAR2;
15 END EmpPackage;
16 /
```

Package created.

```
SQL> CREATE OR REPLACE PACKAGE BODY EmpPackage
 2 IS
 3 PROCEDURE MyBonus
 4 AS
 5 CURSOR DeptCursor
 6 IS
 7 SELECT Deptno
 8 FROM Dept;
 9 BEGIN
10 FOR R_GroupBonus IN DeptCursor LOOP
11 UPDATE Emp
12 SET Sal = Sal * 0.95
13 WHERE Deptno = R_GroupBonus.DeptNo;
14 DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Department ' || R_GroupBonus.Deptno);
15 END LOOP;
16 END MyBonus;
17 PROCEDURE FindEmp
18 (
19 I_Empno IN NUMBER,
20 O_Ename OUT VARCHAR2,
21 O_Job OUT VARCHAR2
22 )
23 AS
24 BEGIN
25 SELECT Ename, Job INTO O_Ename, O_Job
26 FROM Emp WHERE Empno = I_Empno;
27 EXCEPTION
28 WHEN NO_DATA_FOUND THEN
29 DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : ' || I_Empno);
30 END FindEmp;
31 PROCEDURE EmpInfo(I_Deptno IN NUMBER)
32 AS
33 CURSOR EmpInfoCursor
34 IS
35 SELECT Ename, Job, Sal, Comm
36 FROM Emp
37 WHERE Deptno = I_Deptno;
38 EmpRecord EmpInfoCursor%ROWTYPE;
39 NEmployees NUMBER := 0;
```

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```
40  TSalary NUMBER := 0;
41  AVGSalary NUMBER(7,2) := 0;
42  MAXSalary NUMBER(7,2) := 0;
43  BEGIN
44  OPEN EmpInfoCursor;
45  LOOP
46  FETCH EmpInfoCursor INTO EmpRecord;
47  EXIT WHEN EmpInfoCursor%NOTFOUND;
48  DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
49  DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
50  DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
51  DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
52  DBMS_OUTPUT.PUT_LINE('*****');
53  TSalary := TSalary + EmpRecord.Sal;
54  NEmployees := NEmployees + 1;
55  IF EmpRecord.Sal > MAXSalary THEN
56  MAXSalary := EmpRecord.Sal;
57  END IF;
58  END LOOP;
59  AVGSalary := TSalary / NEmployees;
60  DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
61  DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
62  DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
63  DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
64  CLOSE EmpInfoCursor;
65  END EmpInfo;
66  FUNCTION EmpExp(V_Empno NUMBER)
67  RETURN NUMBER
68  IS
69  V_HireDate Emp.HireDate%TYPE;
70  V_Exp NUMBER(4,2) := 1;
71  BEGIN
72  SELECT HireDate INTO V_HireDate
73  FROM Emp
74  WHERE Empno = V_Empno;
75  V_Exp := MONTHS_BETWEEN(SYSDATE,V_HireDate) / 12;
76  RETURN V_Exp;
77  END EmpExp;
78  FUNCTION EmpGrade(I_Grade NUMBER)
79  RETURN VARCHAR2
80  IS
81  V_Num NUMBER(4);
82  BEGIN
83  SELECT COUNT(*) INTO V_Num
84  FROM Emp, SalGrade
85  WHERE Sal BETWEEN LoSal AND HiSal AND
86         Grade = I_Grade;
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
87 RETURN 'The Total Employees For The Grade Given By You Are :
'||V_Num;
88 END EmpGrade;
89 END EmpPackage;
90 /
```

Package body created.

```
SQL> SELECT Ename, EmpPackage(Empno) EmpExp
2 FROM Emp WHERE Empno = 7654
3
```

```
SQL> SELECT Ename, EmpPackage.EmpExp(Empno) EmpExp FROM Emp WHERE Empno =
7654;
```

ENAME	EMPEXP
MARTIN	36.93

```
SQL> EXEC EmpPackage.EmpInfo(10)
```

Employee Name : KING

Employee Job : PRESIDENT

Employee Salary : 5000

Employee Commission :

Employee Name : CLARK

Employee Job : MANAGER

Employee Salary : 2450

Employee Commission :

Employee Name : MILLER

Employee Job : CLERK

Employee Salary : 1300

Employee Commission :

Number of Employees : 3

Total Salary : 8750

Maximum Salary : 5000

Average Salary : 2916.67

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE PACKAGE BODY EmpPackage
```

```
2 IS
```

```
3 PROCEDURE MyBonus
```

```
4 AS
```

```
5 CURSOR DeptCursor
```

```
6 IS
```

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```
7  SELECT Deptno
8  FROM Dept;
9  BEGIN
10  FOR R_GroupBonus IN DeptCursor LOOP
11  UPDATE Emp
12  SET Sal = Sal * 0.95
13  WHERE Deptno = R_GroupBonus.DeptNo;
14  DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Department ' || R_GroupBonus.Deptno);
15  END LOOP;
16  END MyBonus;
17  PROCEDURE FindEmp
18  (
19  I_Empno IN NUMBER,
20  O_Ename OUT VARCHAR2,
21  O_Job OUT VARCHAR2
22  )
23  AS
24  BEGIN
25  SELECT Ename, Job INTO O_Ename, O_Job
26  FROM Emp WHERE Empno = I_Empno;
27  EXCEPTION
28  WHEN NO_DATA_FOUND THEN
29  DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : ' || I_Empno);
30  END FindEmp;
31  PROCEDURE EmpInfo(I_Deptno IN NUMBER)
32  AS
33  CURSOR EmpInfoCursor
34  IS
35  SELECT Empno, Ename, Job, Sal, Comm
36  FROM Emp
37  WHERE Deptno = I_Deptno;
38  EmpRecord EmpInfoCursor%ROWTYPE;
39  NEmployees NUMBER := 0;
40  TSalary NUMBER := 0;
41  AVGSalary NUMBER(7,2) := 0;
42  MAXSalary NUMBER(7,2) := 0;
43  V_EmpExp NUMBER(4, 2);
44  BEGIN
45  OPEN EmpInfoCursor;
46  LOOP
47  FETCH EmpInfoCursor INTO EmpRecord;
48  EXIT WHEN EmpInfoCursor%NOTFOUND;
49  DBMS_OUTPUT.PUT_LINE('Employee Name : ' || EmpRecord.Ename);
50  DBMS_OUTPUT.PUT_LINE('Employee Job : ' || EmpRecord.Job);
51  DBMS_OUTPUT.PUT_LINE('Employee Salary : ' || EmpRecord.Sal);
```

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```
52 DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
53 V_EmpExp := EmpExp(EmpRecord.Empno);
54 DBMS_OUTPUT.PUT_LINE('Employee Experience : '||V_EmpExp);
55 DBMS_OUTPUT.PUT_LINE('*****');
56 TSalary := TSalary + EmpRecord.Sal;
57 NEmployees := NEmployees + 1;
58 IF EmpRecord.Sal > MAXSalary THEN
59 MAXSalary := EmpRecord.Sal;
60 END IF;
61 END LOOP;
62 AVGSalary := TSalary / NEmployees;
63 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
64 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
65 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
66 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
67 CLOSE EmpInfoCursor;
68 END EmpInfo;
69 FUNCTION EmpExp(V_Empno NUMBER)
70 RETURN NUMBER
71 IS
72 V_HireDate Emp.HireDate%TYPE;
73 V_Exp NUMBER(4,2) := 1;
74 BEGIN
75 SELECT HireDate INTO V_HireDate
76 FROM Emp
77 WHERE Empno = V_Empno;
78 V_Exp := MONTHS_BETWEEN(SYSDATE,V_HireDate) / 12;
79 RETURN V_Exp;
80 END EmpExp;
81 FUNCTION EmpGrade(I_Grade NUMBER)
82 RETURN VARCHAR2
83 IS
84 V_Num NUMBER(4);
85 BEGIN
86 SELECT COUNT(*) INTO V_Num
87 FROM Emp, SalGrade
88 WHERE Sal BETWEEN LoSal AND HiSal AND
89        Grade = I_Grade;
90 RETURN 'The Total Employees For The Grade Given By You Are :
91 '||V_Num;
92 END EmpGrade;
93 /
```

Package body created.

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```
SQL> SELECT Ename, EmpPackage.EmpExp(Empno) EmpExp FROM Emp WHERE Empno = 7654;
```

ENAME	EMPEXP
MARTIN	36.93

```
SQL> EXEC EmpPackage.EmpInfo(10)
```

```
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Comission :
Employee Experience : 36.79
*****
```

```
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission :
Employee Experience : 37.23
*****
```

```
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission :
Employee Experience : 36.61
*****
```

```
Number of Employees : 3
Total Salary : 8750
Maximum Salary : 5000
Average Salary : 2916.67
```

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE PACKAGE EmpPackage
2 IS
3 PROCEDURE MyBonus;
4 PROCEDURE FindEmp
5 (
6 I_Empno IN NUMBER,
7 O_Ename OUT VARCHAR2,
8 O_Job OUT VARCHAR2
9 );
10 PROCEDURE EmpInfo(I_Deptno IN NUMBER);
11 --FUNCTION EmpExp(V_Empno NUMBER)
12 --RETURN NUMBER;
13 FUNCTION EmpGrade(I_Grade NUMBER)
14 RETURN VARCHAR2;
```

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```
15 END EmpPackage;
16 /
```

Package created.

```
SQL> SELECT Ename, EmpPackage.EmpExp(Empno) EmpExp FROM Emp WHERE Empno =
7654;
SELECT Ename, EmpPackage.EmpExp(Empno) EmpExp FROM Emp WHERE Empno = 7654
*
ERROR at line 1:
ORA-00904: "EMPPACKAGE"."EMPEXP": invalid identifier
```

```
SQL> cl scr
```

```
SQL> EXEC EmpPackage.EmpInfo(10)
BEGIN EmpPackage.EmpInfo(10); END;
```

*

```
ERROR at line 1:
ORA-04063: package body "SCOTT.EMPPACKAGE" has errors
ORA-06508: PL/SQL: could not find program unit being called:
"SCOTT.EMPPACKAGE"
ORA-06512: at line 1
```

```
SQL> SHOW ERRORS
No errors.
SQL> SHOW ERRORS PACKAGE EmpPackage
No errors.
SQL> SHOW ERRORS PACKAGE BODY EmpPackage
Errors for PACKAGE BODY EMPPACKAGE:
```

```
LINE/COL ERROR
```

```
53/1      PL/SQL: Statement ignored
53/13     PLS-00313: 'EMPEXP' not declared in this scope
SQL> CREATE OR REPLACE PACKAGE BODY EmpPackage
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
```

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```
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 MyBonus
16 AS
17 CURSOR DeptCursor
18 IS
19 SELECT Deptno
20 FROM Dept;
21 BEGIN
22 FOR R_GroupBonus IN DeptCursor LOOP
23 UPDATE Emp
24 SET Sal = Sal * 0.95
25 WHERE Deptno = R_GroupBonus.DeptNo;
26 DBMS_OUTPUT.PUT_LINE('The Bonus Information is Updated For
Department '||R_GroupBonus.Deptno);
27 END LOOP;
28 END MyBonus;
29 PROCEDURE FindEmp
30 (
31 I_Empno IN NUMBER,
32 O_Ename OUT VARCHAR2,
33 O_Job OUT VARCHAR2
34 )
35 AS
36 BEGIN
37 SELECT Ename, Job INTO O_Ename, O_Job
38 FROM Emp WHERE Empno = I_Empno;
39 EXCEPTION
40 WHEN NO_DATA_FOUND THEN
41 DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
42 END FindEmp;
43 PROCEDURE EmpInfo(I_Deptno IN NUMBER)
44 AS
45 CURSOR EmpInfoCursor
46 IS
47 SELECT Empno, Ename, Job, Sal, Comm
48 FROM Emp
49 WHERE Deptno = I_Deptno;
50 EmpRecord EmpInfoCursor%ROWTYPE;
51 NEmployees NUMBER := 0;
52 TSalary NUMBER := 0;
53 AVGSalary NUMBER(7,2) := 0;
54 MAXSalary NUMBER(7,2) := 0;
```

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```
55 V_EmpExp NUMBER(4, 2);
56 BEGIN
57 OPEN EmpInfoCursor;
58 LOOP
59 FETCH EmpInfoCursor INTO EmpRecord;
60 EXIT WHEN EmpInfoCursor%NOTFOUND;
61 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
62 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
63 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
64 DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
65 V_EmpExp := EmpExp(EmpRecord.Empno);
66 DBMS_OUTPUT.PUT_LINE('Employee Experience : '||V_EmpExp);
67 DBMS_OUTPUT.PUT_LINE('*****');
68 TSalary := TSalary + EmpRecord.Sal;
69 NEmployees := NEmployees + 1;
70 IF EmpRecord.Sal > MAXSalary THEN
71 MAXSalary := EmpRecord.Sal;
72 END IF;
73 END LOOP;
74 AVGSalary := TSalary / NEmployees;
75 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
76 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
77 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
78 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
79 CLOSE EmpInfoCursor;
80 END EmpInfo;
81 FUNCTION EmpGrade(I_Grade NUMBER)
82 RETURN VARCHAR2
83 IS
84 V_Num NUMBER(4);
85 BEGIN
86 SELECT COUNT(*) INTO V_Num
87 FROM Emp, SalGrade
88 WHERE Sal BETWEEN LoSal AND HiSal AND
89        Grade = I_Grade;
90 RETURN 'The Total Employees For The Grade Given By You Are :
'||V_Num;
91 END EmpGrade;
92 END EmpPackage;
93 /
```

Package body created.

```
SQL> EXEC EmpPackage.EmpInfo(10)
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
```

```
Employee Comission :
Employee Experience : 36.79
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission :
Employee Experience : 37.23
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission :
Employee Experience : 36.61
*****
Number of Employees : 3
Total Salary : 8750
Maximum Salary : 5000
Average Salary : 2916.67
```

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

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 **Time: 5pm-6pm**

Utilities Covered

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- Regular Expressions
- Dynamic SQL
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