



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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SQL> cl scr

```
SQL> CREATE OR REPLACE PROCEDURE OddNumber (Num1 NUMBER, Num2 NUMBER)
  2  IS
  3  MyNum NUMBER(4);
  4  BEGIN
  5  MyNum := Num1;
  6  WHILE MyNum < Num2
  7  LOOP
  8  IF MOD(MyNum,2) != 0 THEN
  9  DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
 10  END IF;
 11  MyNum := MyNum +1;
 12  END LOOP;
 13  END;
 14  /
```

Procedure created.

SQL> EXEC OddNumber(5, 15)

```
The Odd Number : 5
The Odd Number : 7
The Odd Number : 9
The Odd Number : 11
The Odd Number : 13
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> CREATE OR REPLACE PROCEDURE OddNumber (Num1 NUMBER, Num2 NUMBER)
  2  IS
  3  MyNum NUMBER(4);
  4  BEGIN
  5  MyNum := Num1;
  6  WHILE MyNum < Num2
  7  LOOP
  8  IF MOD(MyNum,2) != 0 THEN
  9  DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
 10  END IF;
 11  MyNum := MyNum +1;
 12  END LOOP;
 13  END;
 14  /
```

Procedure created.

---

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```
SQL> EXEC OddNumber(Num2 => 15, Num1 => 5)
The Odd Number : 5
The Odd Number : 7
The Odd Number : 9
The Odd Number : 11
The Odd Number : 13
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(15, 5)
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PROCEDURE OddNumber(Num1 NUMBER, Num2 NUMBER)
  2  IS
  3  MyNum NUMBER(4);
  4  BEGIN
  5  MyNum := Num1;
  6  WHILE MyNum < Num2
  7  LOOP
  8  IF MOD(MyNum,2) != 0 THEN
  9  DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
 10  END IF;
 11  MyNum := MyNum +1;
 12  END LOOP;
 13  END;
 14  /
```

Procedure created.

```
SQL> EXEC OddNumber(5)
BEGIN OddNumber(5); END;
```

```

      *
ERROR at line 1:
ORA-06550: line 1, column 7:
PLS-00306: wrong number or types of arguments in call to 'ODDNUMBER'
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored
```

```
SQL> EXEC OddNumber
BEGIN OddNumber; END;
```

---

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\*  
ERROR at line 1:  
ORA-06550: line 1, column 7:  
PLS-00306: wrong number or types of arguments in call to 'ODDNUMBER'  
ORA-06550: line 1, column 7:  
PL/SQL: Statement ignored

SQL> cl scr

SQL> CREATE OR REPLACE PROCEDURE OddNumber (Num1 NUMBER, Num2 NUMBER  
DEFAULT 15)  
2 IS  
3 MyNum NUMBER(4);  
4 BEGIN  
5 MyNum := Num1;  
6 WHILE MyNum < Num2  
7 LOOP  
8 IF MOD(MyNum,2) != 0 THEN  
9 DBMS\_OUTPUT.PUT\_LINE('The Odd Number : '||MyNum);  
10 END IF;  
11 MyNum := MyNum +1;  
12 END LOOP;  
13 END;  
14 /

Procedure created.

SQL> EXEC OddNumber(5)  
The Odd Number : 5  
The Odd Number : 7  
The Odd Number : 9  
The Odd Number : 11  
The Odd Number : 13

PL/SQL procedure successfully completed.

SQL> EXEC OddNumber(5, 20)  
The Odd Number : 5  
The Odd Number : 7  
The Odd Number : 9  
The Odd Number : 11  
The Odd Number : 13  
The Odd Number : 15  
The Odd Number : 17  
The Odd Number : 19

---

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PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 CREATE OR REPLACE PROCEDURE OddNumber (Num1 NUMBER DEFAULT 5, Num2
NUMBER DEFAULT 15)
2 IS
3   MyNum NUMBER(4);
4 BEGIN
5   MyNum := Num1;
6   WHILE MyNum < Num2
7   LOOP
8     IF MOD(MyNum,2) != 0 THEN
9       DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
10    END IF;
11    MyNum := MyNum +1;
12  END LOOP;
13* END;
SQL> /
```

Procedure created.

SQL> EXEC OddNumber

The Odd Number : 5  
The Odd Number : 7  
The Odd Number : 9  
The Odd Number : 11  
The Odd Number : 13

PL/SQL procedure successfully completed.

SQL> EXEC OddNumber(1)

The Odd Number : 1  
The Odd Number : 3  
The Odd Number : 5  
The Odd Number : 7  
The Odd Number : 9  
The Odd Number : 11  
The Odd Number : 13

PL/SQL procedure successfully completed.

SQL> EXEC OddNumber(10, 20)

The Odd Number : 11  
The Odd Number : 13  
The Odd Number : 15

---

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The Odd Number : 17

The Odd Number : 19

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> CREATE OR REPLACE PROCEDURE

```
2 FindEmp
3 (
4   O_Ename OUT VARCHAR2,
5   O_Job OUT VARCHAR2,
6   I_Empno IN NUMBER
7 )
8 AS
9 BEGIN
10  SELECT Ename, Job INTO O_Ename, O_Job
11  FROM Emp
12  WHERE Empno = I_Empno;
13  EXCEPTION
14  WHEN NO_DATA_FOUND THEN
15    DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
16  END FindEmp;
17 /
```

Procedure created.

SQL> VARIABLE BName VARCHAR2(15)

SQL> VARIABLE BJob VARCHAR2(15)

SQL> EXEC FindEmp(:BName, :BJob, 7654)

PL/SQL procedure successfully completed.

SQL> PRINT :BName

BENAME

-----

MARTIN

SQL> PRINT :BJob

BJOB

-----

SALESMAN

---

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```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &Gempno;
  3  V_Ename Emp.Ename%TYPE;
  4  V_Job Emp.Job%TYPE;
  5  BEGIN
  6  FindEmp(I_Empno => V_Empno, O_Ename => V_Ename, O_Job => V_Job);
  7  DBMS_OUTPUT.PUT_LINE('Employee '||V_Empno||' is : '|| V_Ename||',
' ||V_Job||'.');
  8  END;
  9  /
```

Enter value for gempno: 7566

Employee 7566 is : JONES, MANAGER.

PL/SQL procedure successfully completed.

```
SQL> /
```

Enter value for gempno: 7839

Employee 7839 is : KING, PRESIDENT.

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> <<EmpInfo>>
```

```
  2  DECLARE
  3  I_Deptno NUMBER := &I_Deptno;
  4  CURSOR EmpInfoCursor
  5  IS
  6  SELECT 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  BEGIN
 15  OPEN EmpInfoCursor;
 16  LOOP
 17  FETCH EmpInfoCursor INTO EmpRecord;
 18  EXIT WHEN EmpInfoCursor%NOTFOUND;
 19  DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
 20  DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
 21  DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
 22  DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
 23  DBMS_OUTPUT.PUT_LINE('*****');
```

---

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```
24 TSalary := TSalary + EmpRecord.Sal;
25 NEmployees := NEmployees + 1;
26 IF EmpRecord.Sal > MAXSalary THEN
27 MAXSalary := EmpRecord.Sal;
28 END IF;
29 END LOOP;
30 AVGSalary := TSalary / NEmployees;
31 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
32 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
33 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
34 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
35 CLOSE EmpInfoCursor;
36 END EmpInfo;
37 /
```

Enter value for i\_deptno: 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> cl scr

SQL> CREATE OR REPLACE PROCEDURE EmpInfo(I\_Deptno IN NUMBER)

2 AS

3 CURSOR EmpInfoCursor

4 IS

5 SELECT Ename, Job, Sal, Comm

6 FROM Emp

7 WHERE Deptno = I\_Deptno;

8 EmpRecord EmpInfoCursor%ROWTYPE;

---

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```
9  NEmployees NUMBER := 0;
10 TSalary NUMBER := 0;
11 AVGSalary NUMBER(7,2) := 0;
12 MAXSalary NUMBER(7,2) := 0;
13 BEGIN
14 OPEN EmpInfoCursor;
15 LOOP
16 FETCH EmpInfoCursor INTO EmpRecord;
17 EXIT WHEN EmpInfoCursor%NOTFOUND;
18 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
19 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
20 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
21 DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
22 DBMS_OUTPUT.PUT_LINE('*****');
23 TSalary := TSalary + EmpRecord.Sal;
24 NEmployees := NEmployees + 1;
25 IF EmpRecord.Sal > MAXSalary THEN
26 MAXSalary := EmpRecord.Sal;
27 END IF;
28 END LOOP;
29 AVGSalary := TSalary / NEmployees;
30 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
31 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
32 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
33 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
34 CLOSE EmpInfoCursor;
35 END EmpInfo;
36 /
```

Procedure created.

```
SQL> EXEC EmpInfo(10)
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Comission :
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission :
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission :
*****
```

---

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

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

PL/SQL procedure successfully completed.

```
SQL> EXEC EmpInfo(20)
Employee Name : JONES
Employee Job : MANAGER
Employee Salary : 2975
Employee Commission :
*****
Employee Name : FORD
Employee Job : ANALYST
Employee Salary : 3000
Employee Commission :
*****
Employee Name : SMITH
Employee Job : CLERK
Employee Salary : 800
Employee Commission :
*****
Employee Name : SCOTT
Employee Job : ANALYST
Employee Salary : 3000
Employee Commission :
*****
Employee Name : ADAMS
Employee Job : CLERK
Employee Salary : 1100
Employee Commission :
*****
Number of Employees : 5
Total Salary : 10875
Maximum Salary : 3000
Average Salary : 2175
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> CREATE OR REPLACE PROCEDURE
2   EmployeeInsert(
3       PEmpno          IN Emp.Empno%TYPE,
4       PEname          IN Emp.Ename%TYPE,
5       PJob            IN Emp.Job%TYPE,
```

---

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---

```
6          PSal          IN Emp.Sal%TYPE,
7          PComm         IN Emp.Comm%TYPE,
8          PDeptno       IN Emp.Deptno%TYPE,
9          PMGR           IN Emp.MGR%TYPE,
10         PHireDate      IN Emp.HireDate%TYPE
11     )
12 IS
13 TYPE ValidateInsertValues
14 IS
15 RECORD
16 (
17     SalaryLess          NUMBER(4),
18     SalaryMore          NUMBER(6)
19 );
20 ValidateRecordValues    ValidateInsertValues;
21 TYPE CheckBits
22 IS
23 RECORD
24 (
25     CheckJobBit         BOOLEAN,
26     CheckDeptnoBit      BOOLEAN,
27     CheckMGRBit         BOOLEAN,
28     CheckHireDateBit    BOOLEAN,
29     CheckSalBit         BOOLEAN
30 );
31 CheckBitsInstance CheckBits;
32 E_ForiegnKeyEXCEPTION;
33 PRAGMA EXCEPTION_INIT(E_ForiegnKey, -2292);
34 E_NotNULLViolation     EXCEPTION;
35 PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);
36 E_CheckViolation       EXCEPTION;
37 PRAGMA EXCEPTION_INIT(E_CheckViolation, -2290);
38 BEGIN
39     CheckJob(PJob, CheckBitsInstance.CheckJobBit);
40     CheckDeptno(PDeptno, CheckBitsInstance.CheckDeptnoBit);
41     CheckMGRNO(PMGR, CheckBitsInstance.CheckMGRBit);
42     CheckHireDate(PHireDate, CheckBitsInstance.CheckHireDateBit);
43     CheckSalary(PSal, CheckBitsInstance.CheckSalBit);
44     IF CheckBitsInstance.CheckJobBit THEN
45     IF CheckBitsInstance.CheckDeptnoBit THEN
46     IF CheckBitsInstance.CheckMGRBit THEN
47     IF CheckBitsInstance.CheckHireDateBit THEN
48     IF CheckBitsInstance.CheckSalBit THEN
49         INSERT INTO Emp(Empno, Ename, Job, Sal,
Comm, Deptno, MGR, HireDate)
50         VALUES (PEmpno, PEname, PJob, PSal, PComm,
PDeptno, PMGR, PHireDate);
```

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---

```
51          --COMMIT;
52          DBMS_OUTPUT.PUT_LINE('Your Record is
Inserted Sucessfully...');
53          ELSE
54              DBMS_OUTPUT.PUT_LINE('Insert Failed Due To
Problem in Salary Values Out of Range');
55          END IF;
56          ELSE
57              DBMS_OUTPUT.PUT_LINE('Insert Failed Due To Problem
in Hire Date Not Matching With Server Standards. ');
58          END IF;
59          ELSE
60              DBMS_OUTPUT.PUT_LINE('Insert Failed Due To Problem in
Manager Number Not Matching With Business Standards. ');
61          END IF;
62          ELSE
63              DBMS_OUTPUT.PUT_LINE('Insert Failed Due To Problem in
Department Number Not Available in The Master. ');
64          END IF;
65          ELSE
66              DBMS_OUTPUT.PUT_LINE('Insert Failed Due To Problem in Designation
Not Suitable To The Organization. ');
67          END IF;
68          EXCEPTION
69          WHEN DUP_VAL_ON_INDEX THEN
70              DBMS_OUTPUT.PUT_LINE('Sorry, The Field With Unique Value is Getting
Duplicated. Hence Insert is Cancelled. ');
71          ROLLBACK;
72          WHEN E_CheckViolation THEN
73              DBMS_OUTPUT.PUT_LINE('A Field with Check Constraint is not Attended
Properly, Please Check Properly. Hence Insert is Cancelled. ');
74          ROLLBACK;
75          WHEN E_NotNULLViolation THEN
76              DBMS_OUTPUT.PUT_LINE('A Field which Cannot be NULL, is not attended,
Please Check Properly. Hence Insert is Cancelled. ');
77          ROLLBACK;
78          WHEN E_ForiegnKey THEN
79              DBMS_OUTPUT.PUT_LINE('A Field is Violating The Parent Child
Relation. Hence Insert is Cancelled. ');
80          ROLLBACK;
81          END EmployeeInsert;
82          /
```

Warning: Procedure created with compilation errors.

SQL> SHOW ERRORS PROCEDURE EmployeeInsert  
Errors for PROCEDURE EMPLOYEEINSERT:

---

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LINE/COL ERROR

---

```
-
39/1      PL/SQL: Statement ignored
39/1      PLS-00201: identifier 'CHECKJOB' must be declared
40/1      PL/SQL: Statement ignored
40/1      PLS-00201: identifier 'CHECKDEPTNO' must be declared
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckJob(PCheckJob IN Emp.Job%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_JobExists          NUMBER(2);
  5  V_Job                Emp.Job%TYPE;
  6  E_NoJob              EXCEPTION;
  7  BEGIN
  8  SELECT
  9    COUNT(*)
 10  INTO
 11    V_JobExists
 12  FROM Emp
 13  WHERE Job = PCheckJob;
 14  IF V_JobExists = 0
 15  THEN
 16    RAISE E_NoJob;
 17  ELSE
 18  SELECT
 19    DISTINCT Job
 20  INTO
 21    V_Job
 22  FROM Emp
 23  WHERE Job = PCheckJob;
 24  DBMS_OUTPUT.PUT_LINE('Success! '||V_Job||' is Found...');
 25  PChkBit := TRUE;
 26  END IF;
 27  EXCEPTION
 28  WHEN E_NoJob THEN
 29  DBMS_OUTPUT.PUT_LINE('Sorry, The Job '||PCheckJob||' To be Inserted
is Not Acceptable.');
```

```
30  ROLLBACK;
31  END CheckJob;
32  /
```

---

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Procedure created.

SQL> ALTER PROCEDURE EmployeeInsert COMPILE;

Warning: Procedure altered with compilation errors.

SQL> SHOW ERRORS PROCEDURE EmployeeInsert  
Errors for PROCEDURE EMPLOYEEINSERT:

LINE/COL ERROR

---

```
40/1      PL/SQL: Statement ignored
40/1      PLS-00201: identifier 'CHECKDEPTNO' must be declared
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckDeptno(PCheckDeptno IN Emp.Deptno%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_DeptnoExists          NUMBER(2);
  5  V_Deptno                Emp.Job%TYPE;
  6  E_NoDept                EXCEPTION;
  7  BEGIN
  8  SELECT
  9    COUNT(*)
 10  INTO
 11    V_DeptnoExists
 12  FROM Emp
 13  WHERE Deptno = PCheckDeptno;
 14  IF V_DeptnoExists = 0
 15  THEN
 16    RAISE E_NoDept;
 17  ELSE
 18  SELECT
 19    DISTINCT Deptno
 20  INTO
 21    V_Deptno
 22  FROM Dept
 23  WHERE Deptno = PCheckDeptno;
 24  DBMS_OUTPUT.PUT_LINE('Success! '||V_Deptno||' is Found...');
 25  PChkBit := TRUE;
 26  END IF;
```

---

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```
27 EXCEPTION
28 WHEN E_NoDept THEN
29 DBMS_OUTPUT.PUT_LINE('Sorry, The Department Number
'||PCheckDeptno||' To be Inserted is Not Acceptable. ');
30 ROLLBACK;
31 END CheckDeptno;
32 /
```

Procedure created.

```
SQL> ALTER PROCEDURE EmployeeInsert COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EmployeeInsert
Errors for PROCEDURE EMPLOYEEINSERT:
```

LINE/COL ERROR

---

```
-
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2 CheckMGRNO(PCheckMGRNO IN Emp.Deptno%TYPE, PChkBit OUT BOOLEAN)
  3 IS
  4   V_MGRNOExists      NUMBER(2);
  5   V_MgrNo            Emp.MGR%TYPE;
  6   E_InvalidManager   EXCEPTION;
  7 BEGIN
  8   SELECT
  9     COUNT(*)
 10 INTO
 11   V_MGRNOExists
 12 FROM Emp
 13 WHERE MGR = PCheckMGRNO;
 14 IF V_MGRNOExists = 0
 15 THEN
 16   RAISE E_InvalidManager;
 17 ELSE
 18   SELECT
 19     DISTINCT MGR
 20 INTO
 21   V_MgrNo
```

---

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## Spool File For Oracle Students Trained by Mr.Sathish Yellanki

---

```
22 FROM Emp
23 WHERE MGR = PCheckMGRNO;
24 DBMS_OUTPUT.PUT_LINE('Success! ' || V_MgrNo || ' is Found...');
25 PChkBit := TRUE;
26 END IF;
27 EXCEPTION
28 WHEN E_InvalidManager THEN
29 DBMS_OUTPUT.PUT_LINE('Sorry, The Manager Number ' || PCheckMGRNO || ' To
be Inserted is Not Acceptable.');
```

Procedure created.

```
SQL> ALTER PROCEDURE EmployeeInsert COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EmployeeInsert
Errors for PROCEDURE EMPLOYEEINSERT:
```

LINE/COL ERROR

---

```
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2 CheckHireDate(PCheckHireDate IN Emp.HireDate%TYPE, PChkBit OUT
BOOLEAN)
  3 IS
  4 V_CurrentDate      Emp.HireDate%TYPE;
  5 E_InvalidHireDate  EXCEPTION;
  6 BEGIN
  7 SELECT
  8 SYSDATE
  9 INTO
10 V_CurrentDate
11 FROM DUAL;
12 V_CurrentDate := TO_DATE(TO_CHAR(V_CurrentDate, 'DD-MON-YY'), 'DD-
MON-YY');
```

```
13 IF V_CurrentDate <> PCheckHireDate
14 THEN
15 RAISE E_InvalidHireDate;
16 ELSE
```

---

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```
17 DBMS_OUTPUT.PUT_LINE('Success! '||V_CurrentDate||' Matches The
Server Clock.');
```

```
18 PChkBit := TRUE;
19 END IF;
20 EXCEPTION
21 WHEN E_InvalidHireDate THEN
22 DBMS_OUTPUT.PUT_LINE('Sorry, The Hire Date '||PCheckHireDate||' To
be Inserted is Not Acceptable.');
```

```
23 ROLLBACK;
24 END CheckHireDate;
25 /
```

Procedure created.

```
SQL> ALTER PROCEDURE EmployeeInsert COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EmployeeInsert
Errors for PROCEDURE EMPLOYEEINSERT:
```

LINE/COL ERROR

---

```
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2 CheckSalary(PCheckSalary IN Emp.Sal%TYPE, PChkBit OUT BOOLEAN)
  3 IS
  4   V_SalaryLess      NUMBER(6);
  5   V_SalaryMore      NUMBER(6);
  6   E_SalLess         EXCEPTION;
  7   E_SalMore         EXCEPTION;
  8 BEGIN
  9   V_SalaryLess := 500;
 10   V_SalaryMore := 150000;
 11   IF PCheckSalary < V_SalaryLess
 12   THEN
 13     RAISE E_SalLess;
 14   ELSIF PCheckSalary > V_SalaryMore
 15   THEN
 16     RAISE E_SalMore;
 17   END IF;
 18   DBMS_OUTPUT.PUT_LINE('Success! The Salary '||PCheckSalary||' is
Acceptable.');
```

```
19   PChkBit := TRUE;
20 EXCEPTION
```

---

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```
21 WHEN E_SalLess THEN
22   DBMS_OUTPUT.PUT_LINE('Sorry, The Salary '||PCheckSalary||' To be
Inserted is Less Than The Acceptable Value. ');
23   ROLLBACK;
24 WHEN E_SalMore THEN
25   DBMS_OUTPUT.PUT_LINE('Sorry, The Salary '||PCheckSalary||' To be
Inserted is More Than The Acceptable Value. ');
26   ROLLBACK;
27 END CheckSalary;
28 /
```

Procedure created.

```
SQL> ALTER PROCEDURE EmployeeInsert COMPILE;
```

Procedure altered.

```
SQL> SHOW ERRORS PROCEDURE EmployeeInsert
```

No errors.

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
2  V_Empno          Emp.Empno%TYPE := &Empno;
3  V_Ename          Emp.Ename%TYPE := '&Ename';
4  V_Job            Emp.Job%TYPE   := '&Job';
5  V_Sal            Emp.Sal%TYPE   := &Sal;
6  V_Comm           Emp.Comm%TYPE  := &Commission;
7  V_Deptno         Emp.Deptno%TYPE := &Deptno;
8  V_MGR            Emp.MGR%TYPE   := &MGR;
9  V_HireDate       Emp.HireDate%TYPE := '&HireDate';
10 BEGIN
11 EmployeeInsert(V_Empno, V_Ename, V_Job, V_Sal, V_Comm, V_Deptno,
V_MGR, V_HireDate);
12 END;
13 /
```

Enter value for empno: 7935

Enter value for ename: SUKESH

Enter value for job: CLERK

Enter value for sal: 2000

Enter value for commission: NULL

Enter value for deptno: 30

Enter value for mgr: 7698

Enter value for hiredate: 29-AUG-18

Success! CLERK is Found...

Success! 30 is Found...

Success! 7698 is Found...

Success! 29-AUG-18 Matches The Server Clock.

---

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Success! The Salary 2000 is Acceptable.  
Your Record is Inserted Successfully...

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for empno: 7936
Enter value for ename: RAKESH
Enter value for job: SRCLERK
Enter value for sal: 1000
Enter value for commission: NULL
Enter value for deptno: 60
Enter value for mgr: 7698
Enter value for hiredate: 15-JUL-18
Sorry, The Job SRCLERK To be Inserted is Not Acceptable.
Sorry, The Department Number 60 To be Inserted is Not Acceptable.
Success! 7698 is Found...
Sorry, The Hire Date 15-JUL-18 To be Inserted is Not Acceptable.
Success! The Salary 1000 is Acceptable.
Insert Failed Due To Problem in Designation Not Suitable To The
Organization.
```

PL/SQL procedure successfully completed.

SQL> SPOOL OFF

---

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Sathish Yellanki

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