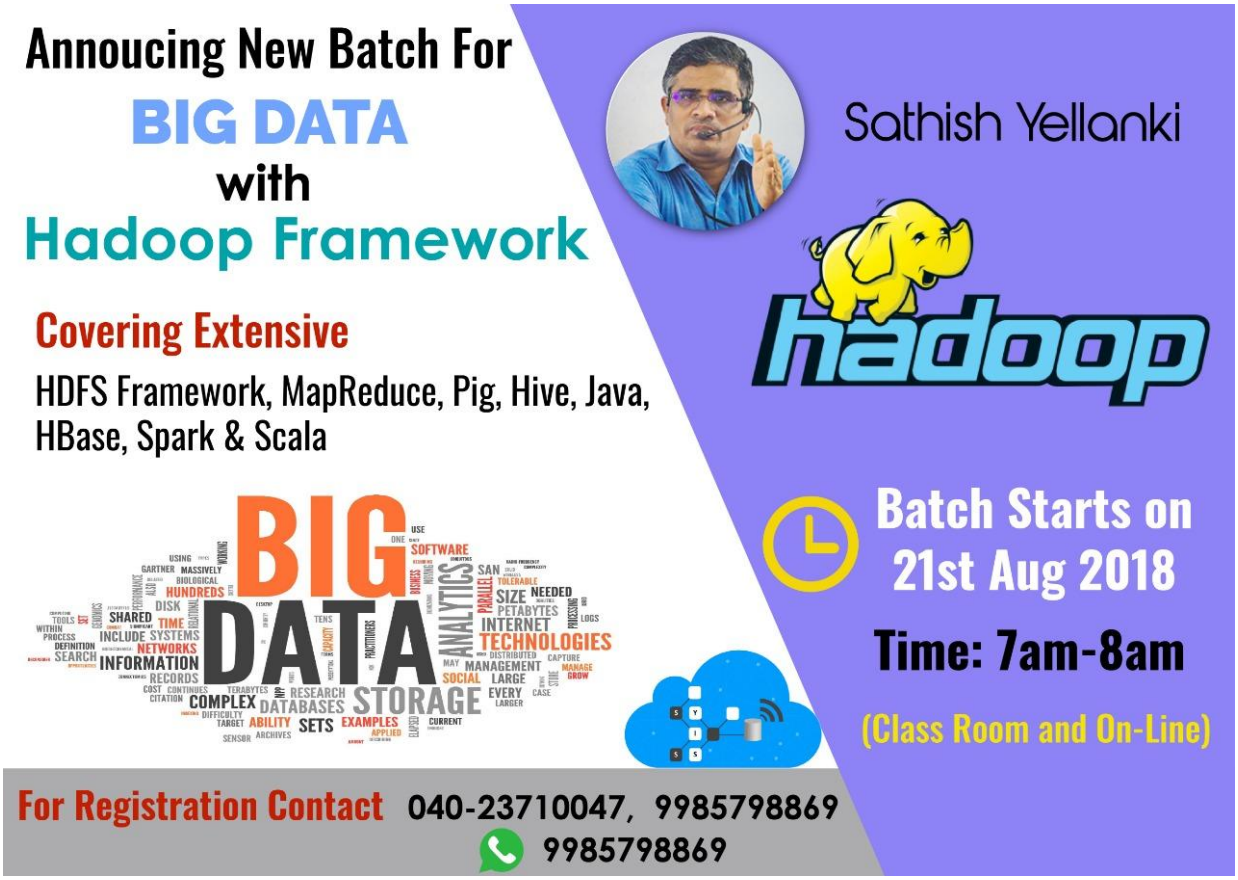

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```
SQL> cl scr

SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE NOT NULL := &EnterEmpNo;
  3  V_Ename Emp.Ename%TYPE NOT NULL := UPPER('&EnterEname');
  4  V_Deptno Emp.Deptno%TYPE NOT NULL := &EnterDepto;
  5  V_Job Emp.Job%TYPE NOT NULL := UPPER('&EnterJob');
  6  V_MGR Emp.MGR%TYPE := &EnterMGRNo;
  7  V_HireDate Emp.HireDate%TYPE NOT NULL := '&EnterHireDate';
  8  V_Sal Emp.Sal%TYPE NOT NULL := &EnterSal;
  9  V_Comm Emp.Comm%TYPE := &EnterComm;
 10  V_MGRName Emp.Ename%TYPE;
 11  BEGIN
 12   DECLARE
 13   V_CurrentDeptno  Dept.Deptno%TYPE;
 14   CURSOR DeptCursor
 15   IS
 16   SELECT Deptno
 17   FROM Dept
 18   WHERE Deptno = V_Deptno;
 19   BEGIN
 20   OPEN DeptCursor;
 21   FETCH DeptCursor INTO V_CurrentDeptno;
 22   IF DeptCursor%FOUND
 23   THEN
 24         DECLARE
 25         V_CurrentMGR     Emp.MGR%TYPE;
 26         CURSOR EmpCursorMGR
 27         IS
 28         SELECT DISTINCT MGR
 29         FROM Emp
 30         WHERE MGR = V_MGR;
 31         BEGIN
 32         OPEN EmpCursorMGR;
 33         FETCH EmpCursorMGR INTO V_CurrentMGR;
 34         IF EmpCursorMGR%FOUND
 35         THEN
 36               DECLARE
 37               V_CurrentJob           Emp.Job%TYPE;
 38               CURSOR EmpCursorJOB
 39               IS
 40               SELECT DISTINCT Job
 41               FROM Emp
 42               WHERE Job = V_Job;
 43               BEGIN
 44               OPEN EmpCursorJOB;
```

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```
 45                FETCH EmpCursorJOB INTO V_CurrentJob;
 46                IF EmpCursorJOB%FOUND
 47                THEN
 48                      DECLARE
 49                      V_CurrentEmpno Emp.Empno%TYPE;
 50                      CURSOR EmpCursorEMPNO
 51                      IS
 52                      SELECT Empno
 53                      FROM Emp
 54                      WHERE Empno = V_Empno;
 55                      BEGIN
 56                      OPEN EmpCursorEMPNO;
 57                      FETCH EmpCursorEMPNO INTO V_CurrentEmpno;
 58                      IF EmpCursorEMPNO%NOTFOUND
 59                      THEN
 60                            INSERT INTO Emp(Empno, Ename, Deptno, Job,
MGR, HireDate, Sal, Comm)
 61                            VALUES(V_Empno, V_Ename, V_Deptno, V_Job,
V_MGR, V_HireDate, V_Sal, V_Comm);
 62                            SELECT Ename, Deptno, Job, MGR, HireDate,
Sal, Comm INTO V_Ename , V_Deptno, V_Job, V_MGR, V_HireDate, V_Sal,
V_Comm
 63                            FROM Emp
 64                            WHERE Empno = V_Empno;
 65                            IF V_MGR IS NOT NULL THEN
 66                                  SELECT Ename INTO V_MGRName
 67                                  FROM Emp
 68                                  WHERE Empno = V_MGR;
 69                            ELSE
 70                                  SELECT Ename INTO V_MGRName
 71                                  FROM Emp
 72                                  WHERE MGR IS NULL;
 73                            END IF;
 74                            DBMS_OUTPUT.PUT_LINE('The Details of New
Employee Record Inserted are as Follows...');
 75                            DBMS_OUTPUT.PUT_LINE('The Employee Number :
'||V_Empno);
 76                            DBMS_OUTPUT.PUT_LINE('The Employee Name :
'||INITCAP(V_Ename));
 77                            DBMS_OUTPUT.PUT_LINE('The Department Number
: '||V_Deptno);
 78                            DBMS_OUTPUT.PUT_LINE('The Designation :
'||INITCAP(V_Job));
 79                            DBMS_OUTPUT.PUT_LINE('The Manager Number :
'||NVL(TO_CHAR(V_MGR),'"Cannot be Managed"')||' , and his Name is :
'||V_MGRName);
```

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```
 80                          DBMS_OUTPUT.PUT_LINE('The Joining Date :
'||TO_CHAR(V_HireDate,'FMDD, Month Year'));
 81                          DBMS_OUTPUT.PUT_LINE('The Basic Salary :
'||CONCAT('INR ',TO_CHAR(V_Sal,'99,999.99')));
 82                          DBMS_OUTPUT.PUT_LINE('The Commission Earned
: '||NVL(TO_CHAR(V_Comm),'No Commission...Sorry!'));
 83                    ELSE
 84                          DBMS_OUTPUT.PUT_LINE('The Given Information
For Employee Number '||V_Empno||' is Already Available.');
 85                          DBMS_OUTPUT.PUT_LINE('Employee Numbers
Cannot Be Duplicated.');
 86                          DBMS_OUTPUT.PUT_LINE('Your INSERT
Transaction has been Cancelled, Currently.');
 87                          DBMS_OUTPUT.PUT_LINE('Thank You for Using
the Data Insert Services...');
 88                          RETURN;
 89                    END IF;
 90                    CLOSE  EmpCursorEMPNO;
 91                    END;
 92               ELSE
 93                    DBMS_OUTPUT.PUT_LINE('The Given Information For
Designation '||V_Job||' is Not Recognized.');
 94                    DBMS_OUTPUT.PUT_LINE('Please Register The
Designation With The Administrator.');
 95                    DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
 96                    DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has
been Cancelled, Currently.');
 97                    DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data
Insert Services...');
 98                    RETURN;
 99               END IF;
100               CLOSE EmpCursorJOB;
101               END;
102         ELSE
103               DBMS_OUTPUT.PUT_LINE('The Given Information For Manager
Number '||V_MGR||' is Not Recognized.');
104               DBMS_OUTPUT.PUT_LINE('Please Register The Manager With
The Administrator.');
105               DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
106               DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been
Cancelled, Currently.');
107               DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data
Insert Services...');
108               RETURN;
109         END IF;
110         CLOSE EmpCursorMGR;
111         END;
```

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```
112   ELSE
113         DBMS_OUTPUT.PUT_LINE('The Given Information For Department
Number '||V_Deptno||' is Not Recognized.');
114         DBMS_OUTPUT.PUT_LINE('Please Register The Department Number
With The Administrator.');
115         DBMS_OUTPUT.PUT_LINE('Then Try The Data Insert.');
116         DBMS_OUTPUT.PUT_LINE('Your INSERT Transaction has been
Cancelled, Currently.');
117         DBMS_OUTPUT.PUT_LINE('Thank You for Using the Data Insert
Services...');
118         RETURN;
119   END IF;
120   CLOSE DeptCursor;
121   END;
122  END;
123  /
Enter value for enterempno: 7935
Enter value for enterename: SATHISH
Enter value for enterdepto: 30
Enter value for enterjob: SALESMAN
Enter value for entermgrno: 7698
Enter value for enterhiredate: 13-AUG-18
Enter value for entersal: 2000
Enter value for entercomm: NULL
The Details of New Employee Record Inserted are as Follows...
The Employee Number :  7935
The Employee Name :  Sathish
The Department Number : 30
The Designation : Salesman
The Manager Number :  7698 , and his Name is : BLAKE
The Joining Date : 13, August Twenty Eighteen
The Basic Salary : INR   2,000.00
The Commission Earned : No Commission...Sorry!

PL/SQL procedure successfully completed.

SQL> /
Enter value for enterempno: 7936
Enter value for enterename: SUKESH
Enter value for enterdepto: 60
Enter value for enterjob: CLERK
Enter value for entermgrno: 7698
Enter value for enterhiredate: 13-AUG-18
Enter value for entersal: 2000
Enter value for entercomm: NULL
The Given Information For Department Number 60 is Not Recognized.
Please Register The Department Number With The Administrator.
```

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```
Then Try The Data Insert.
Your INSERT Transaction has been Cancelled, Currently.
Thank You for Using the Data Insert Services...

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE
  2  CURSOR DeptCursor
  3  IS
  4  SELECT Deptno, Dname
  5  FROM Dept
  6  ORDER BY Deptno;
  7  CURSOR EmpCursor(V_Deptno Emp.Deptno%TYPE)
  8  IS
  9  SELECT Ename, Job, HireDate, Sal
 10  FROM Emp
 11  WHERE Deptno = V_Deptno;
 12  V_CurrDeptno Dept.Deptno%TYPE;
 13  V_CurrDname Dept.Dname%TYPE;
 14  V_Ename Emp.Ename%TYPE;
 15  V_Job Emp.Job%TYPE;
 16  V_Mgr Emp.MGR%TYPE;
 17  V_HireDate Emp.HireDate%TYPE;
 18  V_Sal Emp.Sal%TYPE;
 19  BEGIN
 20  OPEN DeptCursor;
 21  LOOP
 22  FETCH DeptCursor INTO V_CurrDeptno, V_CurrDname;
 23  EXIT WHEN DeptCursor%NOTFOUND;
 24  DBMS_OUTPUT.PUT_LINE('Department Number : ' || V_CurrDeptno||'
Department Name : ' || V_CurrDname);
 25  IF EmpCursor%ISOPEN THEN
 26  CLOSE EmpCursor;
 27  END IF;
 28  OPEN EmpCursor(V_CurrDeptno);
 29   LOOP
 30   FETCH EmpCursor INTO V_Ename, V_Job, V_HireDate, V_Sal;
 31   IF EmpCursor%FOUND THEN
 32   DBMS_OUTPUT.PUT_LINE(V_Ename||' '||V_Job||' '||' '||V_HireDate||'
'||V_Sal);
 33   ELSE
```

```
 34   DBMS_OUTPUT.PUT_LINE('****End of Employees, in  Department :
'||V_CurrDeptno||'.');
 35   END IF;
 36   EXIT WHEN EmpCursor%NOTFOUND;
 37   END LOOP;
 38  IF EmpCursor%ISOPEN THEN
 39  CLOSE EmpCursor;
 40  END IF;
 41  END LOOP;
 42  IF EmpCursor%ISOPEN THEN
 43  CLOSE EmpCursor;
 44  END IF;
 45  CLOSE DeptCursor;
 46  END;
 47  /
Department Number : 10     Department Name : ACCOUNTING
KING PRESIDENT  17-NOV-81 5000
CLARK MANAGER  09-JUN-81 2450
MILLER CLERK  23-JAN-82 1300
****End of Employees, in  Department : 10.
Department Number : 20     Department Name : RESEARCH
JONES MANAGER  02-APR-81 2975
FORD ANALYST  03-DEC-81 3000
SMITH CLERK  17-DEC-80 800
SCOTT ANALYST  09-DEC-82 3000
ADAMS CLERK  12-JAN-83 1100
****End of Employees, in  Department : 20.
Department Number : 30     Department Name : SALES
BLAKE MANAGER  01-MAY-81 2850
MARTIN SALESMAN  28-SEP-81 1250
ALLEN SALESMAN  20-FEB-81 1600
TURNER SALESMAN  08-SEP-81 1500
JAMES CLERK  03-DEC-81 950
WARD SALESMAN  22-FEB-81 1250
****End of Employees, in  Department : 30.
Department Number : 40     Department Name : OPERATIONS
****End of Employees, in  Department : 40.
PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE
  2  CURSOR MyEmpCursor (P_DeptNo Dept.Deptno%TYPE)
  3  IS
  4  SELECT EmpNo, Ename, Mgr, Sal
  5  FROM Emp
  6  WHERE Deptno = P_DeptNo
```

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```
  7  ORDER BY Empno;
  8  CURSOR MyDeptCursor
  9  IS
 10  SELECT DISTINCT DeptNo, Dname
 11  FROM DEPT;
 12  IRowno NUMBER:=0;
 13  V_DeptNo Dept.Deptno%TYPE;
 14  V_Dname Dept.Dname%TYPE;
 15  V_Empno Emp.Empno%TYPE;
 16  V_Ename Emp.Ename%TYPE;
 17  V_MGR Emp.Mgr%TYPE;
 18  V_Sal Emp.Sal%TYPE;
 19  BEGIN
 20  OPEN MyDeptCursor;
 21  LOOP
 22  FETCH MyDeptCursor INTO V_Deptno, V_Dname;
 23  EXIT WHEN MyDeptCursor%NOTFOUND OR MyDeptCursor%NOTFOUND IS NULL;
 24  IRowNo := 0;
 25  DBMS_OUTPUT.PUT_LINE('Displaying Employees of '||INITCAP(V_Dname)||
' Department.');
 26  OPEN MyEmpCursor(V_Deptno);
 27   LOOP
 28   FETCH MyEmpCursor INTO V_Empno, V_Ename, V_Mgr, V_Sal;
 29   EXIT WHEN MyEmpCursor%NOTFOUND OR MyEmpCursor%NOTFOUND IS NULL;
 30   DBMS_OUTPUT.PUT_LINE(RPAD(V_Empno, 8)||RPAD(V_Ename,
12)||RPAD(V_Sal, 8)||RPAD(V_Mgr, 8));
 31   IRowno := IRowno + 1;
 32   END LOOP;
 33  DBMS_OUTPUT.PUT_LINE('Number of Employees Scanned and Processed are
: '|| iRowNo);
 34  CLOSE MyEmpCursor;
 35  END LOOP;
 36  CLOSE MyDeptCursor;
 37  END;
 38  /
Displaying Employees of Accounting Department.
7782    CLARK       2450    7839
7839    KING        5000
7934    MILLER      1300    7782
Number of Employees Scanned and Processed are : 3
Displaying Employees of Research Department.
7369    SMITH       800     7902
7566    JONES       2975    7839
7788    SCOTT       3000    7566
7876    ADAMS       1100    7788
7902    FORD        3000    7566
Number of Employees Scanned and Processed are : 5
```

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```
Displaying Employees of Sales Department.
7499    ALLEN       1600    7698
7521    WARD        1250    7698
7654    MARTIN      1250    7698
7698    BLAKE       2850    7839
7844    TURNER      1500    7698
7900    JAMES       950     7698
Number of Employees Scanned and Processed are : 6
Displaying Employees of Operations Department.
Number of Employees Scanned and Processed are : 0
PL/SQL procedure successfully completed.

SQL> cl scr

SQL> DECLARE
  2  CURSOR MyDeptCursor
  3  IS
  4  SELECT Deptno
  5  FROM Dept;
  6  V_DeptCursor MyDeptCursor%ROWTYPE;
  7  BEGIN
  8  IF NOT MyDeptCursor%ISOPEN THEN
  9  OPEN MyDeptCursor;
 10  END IF;
 11  LOOP
 12   FETCH MyDeptCursor INTO V_DeptCursor;
 13   IF MyDeptCursor%FOUND THEN
 14         DECLARE
 15               SUMAmount NUMBER := 0;
 16               CURSOR MyCursor (PDeptno NUMBER)
 17               IS
 18               SELECT Sal
 19               FROM Emp
 20               WHERE Deptno = PDeptno;
 21               V_MyCursor MyCursor%ROWTYPE;
 22         BEGIN
 23         OPEN MyCursor(V_DeptCursor.Deptno);
 24         LOOP
 25               FETCH MyCursor INTO V_MyCursor;
 26               EXIT WHEN MyCursor%NOTFOUND;
 27               SUMAmount := SUMAmount + V_MyCursor.Sal;
 28         END LOOP;
 29         DBMS_OUTPUT.PUT_LINE ('The Investment on Department
'||V_DeptCursor.Deptno||' is '||TO_CHAR(SUMAmount));
 30         CLOSE MyCursor;
 31         END;
 32   ELSE
```

```
 33   CLOSE MyDeptCursor;
 34   EXIT;
 35   END IF;
 36  END LOOP;
 37  END;
 38  /
The Investment on Department 10 is 8750
The Investment on Department 20 is 10875
The Investment on Department 30 is 9400
The Investment on Department 40 is 0

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;
Rollback complete.

SQL> SELECT Empno, Ename, Deptno, Sal
  2  FROM Emp
  3  WHERE Deptno = 30;

     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
      7698 BLAKE              30       2850
      7654 MARTIN             30       1250
      7499 ALLEN              30       1600
      7844 TURNER             30       1500
      7900 JAMES              30        950
      7521 WARD               30       1250

6 rows selected.

SQL> DECLARE
  2  CURSOR SalCursor
  3  IS
  4  SELECT Sal
  5  FROM Emp
  6  WHERE Deptno = 30
  7  FOR UPDATE OF Sal NOWAIT;
  8  BEGIN
  9  FOR EmpRec IN SalCursor
 10  LOOP
 11   UPDATE Emp
 12   SET
 13   Sal = Sal + (EmpRec.Sal * 1.10)
 14   WHERE CURRENT OF SalCursor;
```

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```
 15  END LOOP;
 16  END;
 17  /

PL/SQL procedure successfully completed.

SQL> SELECT Empno, Ename, Deptno, Sal
  2  FROM Emp
  3  WHERE Deptno = 30;

     EMPNO ENAME          DEPTNO        SAL
---------- ---------- ---------- ----------
      7698 BLAKE              30       5985
      7654 MARTIN             30       2625
      7499 ALLEN              30       3360
      7844 TURNER             30       3150
      7900 JAMES              30       1995
      7521 WARD               30       2625
6 rows selected.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE
  2  V_FromSal Emp.Sal%TYPE;
  3  V_ToSal Emp.Sal%TYPE;
  4  V_CurrentRow ROWID;
  5  CURSOR SalCursor
  6  IS
  7  SELECT ROWID, Ename, Sal
  8  FROM Emp
  9  WHERE Deptno = 30
 10  FOR UPDATE OF Sal NOWAIT;
 11  V_EmpRec SalCursor%ROWTYPE;
 12  BEGIN
 13  OPEN SalCursor;
 14  LOOP
 15  FETCH SalCursor INTO V_EmpRec;
 16  EXIT WHEN SalCursor%NOTFOUND;
 17  DBMS_OUTPUT.PUT_LINE('The Salary for Update is '||V_EmpRec.Sal||' of
'||V_EmpRec.Ename||'.');
 18  V_FromSal := V_EmpRec.Sal;
```

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```
 19  V_CurrentRow := V_EmpRec.ROWID;
 20  UPDATE Emp
 21  SET
 22  Sal = Sal + (V_EmpRec.Sal * 1.10)
 23  WHERE CURRENT OF SalCursor;
 24  SELECT Sal INTO V_ToSal
 25  FROM Emp WHERE ROWID = V_CurrentRow;
 26  DBMS_OUTPUT.PUT_LINE('The Updated Salary Value is from
'||V_FromSal||' To '||V_ToSal ||' Confirm The Update Before it is
Committed.');
 27  END LOOP;
 28  END;
 29  /
The Salary for Update is 2850 of BLAKE.
The Updated Salary Value is from 2850 To 5985 Confirm The Update Before
it is Committed.
The Salary for Update is 1250 of MARTIN.
The Updated Salary Value is from 1250 To 2625 Confirm The Update Before
it is Committed.
The Salary for Update is 1600 of ALLEN.
The Updated Salary Value is from 1600 To 3360 Confirm The Update Before
it is Committed.
The Salary for Update is 1500 of TURNER.
The Updated Salary Value is from 1500 To 3150 Confirm The Update Before
it is Committed.
The Salary for Update is 950 of JAMES.
The Updated Salary Value is from 950 To 1995 Confirm The Update Before it
is Committed.
The Salary for Update is 1250 of WARD.
The Updated Salary Value is from 1250 To 2625 Confirm The Update Before
it is Committed.

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> CREATE TABLE SalUpdateAudit
  2  (
  3   UpdateID NUMBER(4),
  4   Empno NUMBER(4),
  5   OldSal NUMBER(7, 2)
  6   CONSTRAINT SalUpdateAudit_OldSalCHK
  7   CHECK(OldSal > 0),
```

```
  8   NewSal NUMBER(9, 2),
  9   UpdatedDate DATE,
 10   UpdatedTime DATE,
 11   UserInfo VARCHAR2(10),
 12   UserTerminal VARCHAR2(10),
 13   CONSTRAINT SalUpdateAudit_CKPK
 14   PRIMARY KEY(UpdateID, Empno),
 15   CONSTRAINT SalUpdateAudit_NewSalCHK
 16   CHECK(NewSal > OldSal)
 17  );

Table created.

SQL> DECLARE
  2  V_FromSal Emp.Sal%TYPE;
  3  V_ToSal Emp.Sal%TYPE;
  4  V_CurrentRow ROWID;
  5  CURSOR SalCursor
  6  IS
  7  SELECT ROWID, Empno, Ename, Sal
  8  FROM Emp
  9  WHERE Deptno = 30
 10  FOR UPDATE OF Sal NOWAIT;
 11  BEGIN
 12  FOR EmpRec IN SalCursor
 13  LOOP
 14  V_FromSal := EmpRec.Sal;
 15  V_CurrentRow := EmpRec.ROWID;
 16  UPDATE Emp
 17  SET
 18  Sal = Sal + (EmpRec.Sal * 1.10)
 19  WHERE CURRENT OF SalCursor;
 20   IF SalCursor%FOUND
 21   THEN
 22         DECLARE
 23         V_UpdateID SalUpdateAudit.UpdateID%TYPE := 0;
 24         V_CurrUpdateID SalUpdateAudit.UpdateID%TYPE;
 25         V_Empno Emp.Empno%TYPE;
 26         BEGIN
 27               SELECT MAX(UpdateID) INTO V_UpdateID
 28               FROM SalUpdateAudit;
 29               IF V_UpdateID IS NULL
 30               THEN
 31                     V_UpdateID := 1;
 32               ELSE
 33                     V_UpdateID := V_UpdateID + 1;
 34               END IF;
```

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```
 35               SELECT
 36                     Empno, Sal
 37                     INTO
 38                     V_Empno, V_ToSal
 39               FROM Emp WHERE ROWID = V_CurrentRow;
 40               INSERT INTO
 41               SalUpdateAudit
 42               (UpdateID, Empno, OldSal, NewSal, UpdatedDate,
UpdatedTime, UserInfo, UserTerminal)
 43               VALUES
 44               (V_UpdateID, V_Empno, V_FromSal, V_ToSal,
TO_DATE(TO_CHAR(SYSDATE, 'DD-MON-YYYY'), 'DD-MON-YYYY'),
TO_DATE(TO_CHAR(SYSDATE, 'HH:MI:SS'), 'HH-MI-SS'), USER,
USERENV('TERMINAL'));
 45         END;
 46   ELSE
 47         NULL;
 48   END IF;
 49  END LOOP;
 50  END;
 51  /
PL/SQL procedure successfully completed.

SQL> SELECT * FROM SalUpdateAudit;

  UPDATEID      EMPNO     OLDSAL     NEWSAL UPDATEDDA UPDATEDTI USERINFO
USERTERMIN
---------- ---------- ---------- ---------- --------- --------- ---------
         1       7698       2850       5985 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC
         2       7654       1250       2625 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC
         3       7499       1600       3360 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC
         4       7844       1500       3150 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC
         5       7900        950       1995 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC
         6       7521       1250       2625 13-AUG-18 01-AUG-18 SCOTT
YELLANKIPC

6 rows selected.

SQL> SPOOL OFF
```

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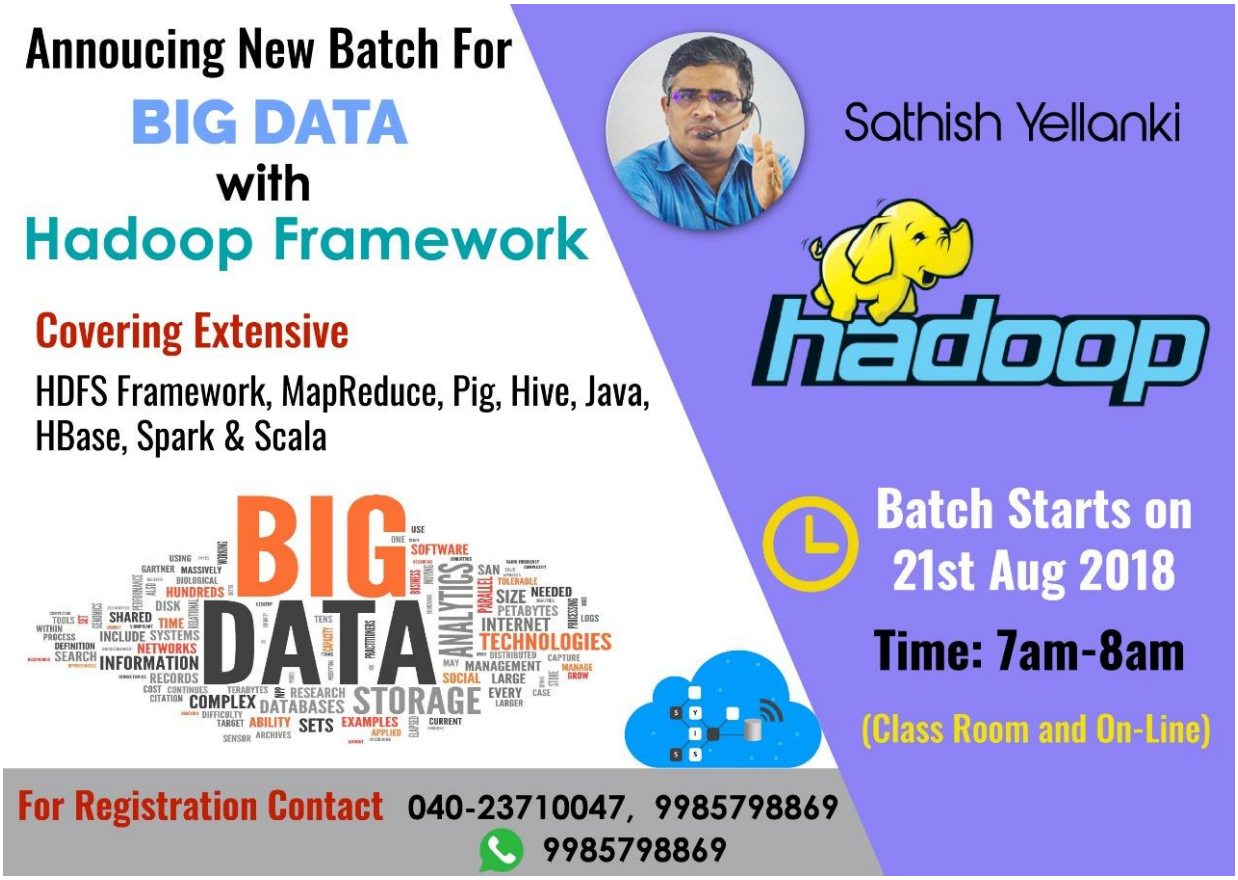

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