

Announcing New Batch For **BIG DATA** with **Hadoop Framework**

Covering Extensive

HDFS Framework, MapReduce, Pig, Hive, Java,
HBase, Spark & Scala



Sathish Yellanki



**Batch Starts on
21st Aug 2018**

Time: 7am-8am

(Class Room and On-Line)



For Registration Contact 040-23710047, 9985798869
 9985798869

Oracle By Sathish

SkyEss Techno Solutions Pvt. Ltd.

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SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  DELETE FROM Dept
2* WHERE Deptno = &V_Deptno
SQL> /
Enter value for v_deptno: 40
```

1 row deleted.

SQL> /

Enter value for v_deptno: 20

DELETE FROM Dept

*

ERROR at line 1:

ORA-02292: integrity constraint (SCOTT.EMP_FOREIGN_KEY) violated - child record found

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE

```
2  E_EmpRemaining EXCEPTION;
3  PRAGMA EXCEPTION_INIT(E_EmpRemaining, -2292);
4  V_Deptno Emp.Deptno%TYPE := &GiveDeptno;
5  BEGIN
6  DELETE FROM Dept
7  WHERE Deptno = V_Deptno;
8  END;
9  /
```

Enter value for givedeptno: 40

PL/SQL procedure successfully completed.

SQL> /

Enter value for givedeptno: 30

DECLARE

*

ERROR at line 1:

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ORA-02292: integrity constraint (SCOTT.EMP_FOREIGN_KEY) violated - child record found
ORA-06512: at line 6

```
SQL> DECLARE
  2  E_EmpRemaining EXCEPTION;
  3  PRAGMA EXCEPTION_INIT(E_EmpRemaining, -2292);
  4  V_Deptno Emp.Deptno%TYPE := &GiveDeptno;
  5  BEGIN
  6  DELETE FROM Dept
  7  WHERE Deptno = V_Deptno;
  8  EXCEPTION
  9  WHEN E_EmpRemaining THEN
 10  DBMS_OUTPUT.PUT_LINE('Unable to Delete the Department Number
  ||V_Deptno||' as the Employees are Existing. Validate Your Relations and
then Try Once Again.');
```

```
11  WHEN NO_DATA_FOUND THEN
12  DBMS_OUTPUT.PUT_LINE('The Given Information is Missing in the
Database, Check for Proper Values.');
```

```
13  END;
14  /
```

Enter value for givedeptno: 30
Unable to Delete the Department Number 30 as the Employees are Existing.
Validate Your Relations and then Try Once Again.

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> DECLARE
  2  E_EmpRemaining EXCEPTION;
  3  PRAGMA EXCEPTION_INIT(E_EmpRemaining, -2292);
  4  V_Deptno Emp.Deptno%TYPE := &GiveDeptno;
  5  BEGIN
  6  DELETE FROM Dept
  7  WHERE Deptno = V_Deptno;
  8  EXCEPTION
  9  WHEN E_EmpRemaining THEN
 10  DBMS_OUTPUT.PUT_LINE('Unable to Delete the Department Number
  ||V_Deptno||' as the Employees are Existing. Validate Your Relations and
then Try Once Again.');
```

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```
11 WHEN NO_DATA_FOUND THEN
12 DBMS_OUTPUT.PUT_LINE('The Given Information is Missing in the
Database, Check for Proper Values. ');
13 END;
14 /
```

Enter value for givedeptno: 40

PL/SQL procedure successfully completed.

SQL> /

Enter value for givedeptno: 20

Unable to Delete the Department Number 20 as the Employees are Existing.
Validate Your Relations and then Try Once
Again.

PL/SQL procedure successfully completed.

SQL> /

Enter value for givedeptno: 70

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> DECLARE

```
2 E_EmpRemaining EXCEPTION;
3 PRAGMA EXCEPTION_INIT(E_EmpRemaining, -2292);
4 V_Deptno Emp.Deptno%TYPE := &GiveDeptno;
5 BEGIN
6 DELETE FROM Dept
7 WHERE Deptno = V_Deptno;
8 IF SQL%NOTFOUND THEN
9 DBMS_OUTPUT.PUT_LINE('The Given Information is Missing in the
Database, Check for Proper Values. ');
10 END IF;
11 EXCEPTION
12 WHEN E_EmpRemaining THEN
13 DBMS_OUTPUT.PUT_LINE('Unable to Delete the Department Number
'||V_Deptno||' as the Employees are Existing. Validate Your Relations and
then Try Once Again. ');
14 END;
15 /
```

Enter value for givedeptno: 70

The Given Information is Missing in the Database, Check for Proper
Values.

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PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> DECLARE
  2  E_EmpExists EXCEPTION;
  3  V_Count NUMBER(2);
  4  V_SalSum NUMBER(6);
  5  PRAGMA EXCEPTION_INIT(E_EmpExists, -2292);
  6  V_Empno Emp.Empno%TYPE := &GiveEmpno;
  7  BEGIN
  8  DELETE FROM Emp
  9  WHERE Empno = V_Empno;
 10  IF SQL%NOTFOUND THEN
 11  DBMS_OUTPUT.PUT_LINE('The Given Employee Number '||V_Empno||' is
Missing in the Database, Check for Proper Values.');
```

12 ROLLBACK;

13 ELSE

14 NULL;

15 END IF;

16 EXCEPTION

17 WHEN E_EmpExists THEN

18 DBMS_OUTPUT.PUT_LINE('Unable to Delete the Employee Details

'||V_Empno||' as the Employees are Existing. Validate Your Relations and

then Try Once Again.');

19 END;

20 /

Enter value for giveempno: 7654

PL/SQL procedure successfully completed.

SQL> /

Enter value for giveempno: 7566

Unable to Delete the Employee Details 7566 as the Employees are Existing.
Validate Your Relations and then Try Once
Again.

PL/SQL procedure successfully completed.

SQL> /

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Enter value for giveempno: 2234

The Given Employee Number 2234 is Missing in the Database, Check for Proper Values.

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE

2 E_NotNULLViolation EXCEPTION;

3 PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);

4 BEGIN

5 INSERT INTO Emp(Empno, Ename, Job, Sal, Comm, Deptno)

6 VALUES(&Empno, 'SATHISH', 'ANALYST', 25000, NULL, &Deptno);

7 EXCEPTION

8 WHEN E_NotNULLViolation THEN

9 DBMS_OUTPUT.PUT_LINE('A Field which Cannot be NULL, is not attended, Please Check Properly...');

10 END;

11 /

Enter value for empno: NULL

Enter value for deptno: 30

A Field which Cannot be NULL, is not attended, Please Check Properly...

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: 7935

Enter value for deptno: NULL

A Field which Cannot be NULL, is not attended, Please Check Properly...

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

1 DECLARE

2 V_Empno Emp.Empno%TYPE := &Empno;

3 V_Deptno Emp.Deptno%TYPE := &Deptno;

4 E_NotNULLViolation EXCEPTION;

5 PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);

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```
6 BEGIN
7 INSERT INTO Emp(Empno, Ename, Job, Sal, Comm, Deptno)
8 VALUES(V_Empno, 'SATHISH', 'ANALYST', 25000, NULL, V_Deptno);
9 EXCEPTION
10 WHEN E_NotNULLViolation THEN
11 IF V_Empno IS NULL THEN
12 DBMS_OUTPUT.PUT_LINE('Employee Number Cannot be NULL');
13 ELSE
14 DBMS_OUTPUT.PUT_LINE('Department Number Cannot be NULL');
15 END IF;
16* END;
```

SQL> /

Enter value for empno: NULL

Enter value for deptno: 30

Employee Number Cannot be NULL

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: 7935

Enter value for deptno: NULL

Department Number Cannot be NULL

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ALTER TABLE Emp

```
2 ADD CONSTRAINT EmpEnameCHK CHECK(Ename = UPPER(Ename))
```

```
3 ADD CONSTRAINT EmpJobCHK CHECK(Job = UPPER(Job))
```

```
4 /
```

Table altered.

SQL> cl scr

SQL> DECLARE

```
2 E_NotNULLViolation EXCEPTION;
```

```
3 PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);
```

```
4 E_CheckViolation EXCEPTION;
```

```
5 PRAGMA EXCEPTION_INIT(E_CheckViolation, -2290);
```

```
6 BEGIN
```

```
7 INSERT INTO Emp(Empno, Ename, Job, Sal, Comm, Deptno)
```

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```
8  VALUES(&Empno, '&Ename', '&Job', 25000, NULL, &Deptno);
9  EXCEPTION
10 WHEN E_CheckViolation THEN
11  DBMS_OUTPUT.PUT_LINE('A Field with Check Constraint is not Attended
Properly, Please Check Properly.');
```

```
12 WHEN E_NotNULLViolation THEN
13  DBMS_OUTPUT.PUT_LINE('A Field which Cannot be NULL, is not attended,
Please Check Properly.');
```

```
14 END;
```

```
15 /
```

Enter value for empno: 7935

Enter value for ename: Suresh

Enter value for job: CLERK

Enter value for deptno: 30

A Field with Check Constraint is not Attended Properly, Please Check Properly.

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: 7935

Enter value for ename: SURESH

Enter value for job: Clerk

Enter value for deptno: 30

A Field with Check Constraint is not Attended Properly, Please Check Properly.

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: NULL

Enter value for ename: SURESH

Enter value for job: CLERK

Enter value for deptno: 30

A Field which Cannot be NULL, is not attended, Please Check Properly.

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &Empno;
3  V_Ename Emp.Ename%TYPE := '&Ename';
4  V_Job Emp.Job%TYPE := '&Job';
5  V_Deptno Emp.Deptno%TYPE := &Deptno;
6  E_NotNULLViolation EXCEPTION;
```

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```
7  PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);
8  E_CheckViolation EXCEPTION;
9  PRAGMA EXCEPTION_INIT(E_CheckViolation, -2290);
10 BEGIN
11  INSERT INTO Emp(Empno, Ename, Job, Sal, Comm, Deptno)
12  VALUES(V_Empno, V_Ename, V_Job, 25000, NULL, V_Deptno);
13  EXCEPTION
14  WHEN E_CheckViolation THEN
15  IF V_Ename != UPPER(V_Ename) THEN
16  DBMS_OUTPUT.PUT_LINE('Employee Name Should Be in Upper Case');
17  ELSIF V_Job != UPPER(V_Job) THEN
18  DBMS_OUTPUT.PUT_LINE('Employee Designation Should Be in Upper
Case');
19  END IF;
20  WHEN E_NotNULLViolation THEN
21  IF V_Empno IS NULL THEN
22  DBMS_OUTPUT.PUT_LINE('Employee Number Cannot be NULL');
23  ELSE
24  DBMS_OUTPUT.PUT_LINE('Department Number Cannot be NULL');
25  END IF;
26* END;
```

SQL> /

Enter value for empno: NULL
Enter value for ename: SURESH
Enter value for job: CLERK
Enter value for deptno: 30
Employee Number Cannot be NULL

PL/SQL procedure successfully completed.

SQL> /

Enter value for empno: 7936
Enter value for ename: Suresh
Enter value for job: CLERK
Enter value for deptno: 30
Employee Name Should Be in Upper Case

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

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```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &Gempno;
  3  V_Ename Emp.Ename%TYPE;
  4  BEGIN
  5  SELECT Ename INTO V_Ename
  6  FROM Emp
  7  WHERE Empno = V_Empno;
  8  DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
  9  EXCEPTION
 10  WHEN NO_DATA_FOUND THEN
 11  DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
 12  WHEN OTHERS THEN
 13  DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
 14  END;
 15  /
```

Enter value for gempno: 7654
The Employee Name is : MARTIN

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 2234
Employee Data Not Found
```

PL/SQL procedure successfully completed.

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

```
  1  DECLARE
  2  V_Empno Emp.Empno%TYPE := &Gempno;
  3  V_Ename Emp.Ename%TYPE;
  4  E_RecNotFound EXCEPTION;
  5  PRAGMA EXCEPTION_INIT(E_RecNotFound, -1403);
  6  BEGIN
  7  SELECT Ename INTO V_Ename
  8  FROM Emp
  9  WHERE Empno = V_Empno;
 10  DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
 11  EXCEPTION
 12  WHEN E_RecNotFound THEN
 13  DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
 14  WHEN OTHERS THEN
 15  DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
 16* END;
SQL> /
Enter value for gempno: 2234
```

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E_RecNotFound EXCEPTION;

*

ERROR at line 4:

ORA-06550: line 4, column 1:

PLS-00701: illegal ORACLE error number -1403 for PRAGMA EXCEPTION_INIT

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &GEmpno;
3  V_Ename Emp.Ename%TYPE;
4  E_RecNotFound EXCEPTION;
5  PRAGMA EXCEPTION_INIT(E_RecNotFound, +100);
6  BEGIN
7  SELECT Ename INTO V_Ename
8  FROM Emp
9  WHERE Empno = V_Empno;
10 DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
11 EXCEPTION
12 WHEN E_RecNotFound THEN
13 DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
14 WHEN OTHERS THEN
15 DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
16* END;
SQL> /
Enter value for gempno: 2234
Employee Data Not Found
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &GEmpno;
3  V_Ename Emp.Ename%TYPE;
4  E_RecNotFound EXCEPTION;
5  PRAGMA EXCEPTION_INIT(E_RecNotFound, +100);
6  BEGIN
7  SELECT Ename INTO V_Ename
8  FROM Emp
9  WHERE Empno = V_Empno;
10 DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
11 EXCEPTION
12 WHEN E_RecNotFound THEN
```

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```
13 DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
14 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
15 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
16 WHEN OTHERS THEN
17 DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
18 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
19 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
20* END;
```

SQL> /

Enter value for gempno: 2234

Employee Data Not Found

Server Return Code : 100

Server Return Message : ORA-01403: no data found

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Sal Emp.Sal%TYPE := &GSal;
3 V_Ename Emp.Ename%TYPE;
4 E_RecNotFound EXCEPTION;
5 PRAGMA EXCEPTION_INIT(E_RecNotFound, +100);
6 BEGIN
7 SELECT Ename INTO V_Ename
8 FROM Emp
9 WHERE Sal = V_Sal ;
10 DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
11 EXCEPTION
12 WHEN E_RecNotFound THEN
13 DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
14 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
15 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
16 WHEN OTHERS THEN
17 DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
18 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
19 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
20* END;
```

SQL> /

Enter value for gsal: 5000

The Employee Name is : KING

PL/SQL procedure successfully completed.

SQL> /

Enter value for gsal: 2234

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Employee Data Not Found
Server Return Code : 100
Server Return Message : ORA-01403: no data found

PL/SQL procedure successfully completed.

SQL> /
Enter value for gsal: 3000
Un-Identified Exception
Server Return Code : -1422
Server Return Message : ORA-01422: exact fetch returns more than requested number of rows

PL/SQL procedure successfully completed.

SQL> ED
Wrote file afiedt.buf

```
1  DECLARE
2  V_Sal Emp.Sal%TYPE := &GSal;
3  V_Ename Emp.Ename%TYPE;
4  E_RecNotFound EXCEPTION;
5  PRAGMA EXCEPTION_INIT(E_RecNotFound, +100);
6  BEGIN
7  SELECT Ename INTO V_Ename
8  FROM Emp
9  WHERE Sal = V_Sal ;
10 DBMS_OUTPUT.PUT_LINE('The Employee Name is : '||V_Ename);
11 EXCEPTION
12 WHEN E_RecNotFound THEN
13 DBMS_OUTPUT.PUT_LINE('Employee Data Not Found');
14 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
15 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
16 WHEN TOO_MANY_ROWS THEN
17 DBMS_OUTPUT.PUT_LINE('More Records Are Matching, Cannot Operate');
18 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
19 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
20 WHEN OTHERS THEN
21 DBMS_OUTPUT.PUT_LINE('Un-Identified Exception');
22 DBMS_OUTPUT.PUT_LINE('Server Return Code : '||SQLCODE);
23 DBMS_OUTPUT.PUT_LINE('Server Return Message : '||SQLERRM);
24* END;
```

SQL> /
Enter value for gsal: 1250
More Records Are Matching, Cannot Operate
Server Return Code : -1422

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Server Return Message : ORA-01422: exact fetch returns more than requested number of rows

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> CREATE TABLE MyAudit
  2  (
  3    UserName VARCHAR2(15),
  4    ModDate DATE,
  5    Message VARCHAR2(100)
  6  )
  7  /
```

Table created.

```
SQL> CREATE TABLE TrappedMessages
  2  (
  3    ErrorNum NUMBER(6),
  4    ErrorMessage VARCHAR2(250),
  5    TrapDate DATE
  6  )
  7  /
```

Table created.

```
SQL> DECLARE
  2  V_Deptno Dept.Deptno%TYPE := &DeptNumber;
  3  V_Dname Dept.Dname%TYPE := UPPER('&DeptName');
  4  V_Loc Dept.Loc%TYPE := UPPER('&DeptLocation');
  5  BEGIN
  6  INSERT INTO Dept
  7  VALUES(V_Deptno, V_Dname, V_Loc);
  8  IF SQL%FOUND THEN
  9  DBMS_OUTPUT.PUT_LINE('Insert is Successfull');
 10  INSERT INTO MyAudit(UserName, ModDate, Message)
 11  VALUES(USER, SYSDATE, 'Record Inserted Successfully');
 12  ELSE
 13  DBMS_OUTPUT.PUT_LINE('Insert Has Failed');
 14  INSERT INTO MyAudit(UserName, ModDate, Message)
```

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```
15 VALUES(USER, SYSDATE, 'Record Insertion Failed');
16 END IF;
17 EXCEPTION
18 WHEN OTHERS THEN
19   DECLARE
20     V_ErrorCode NUMBER(6);
21     V_ErrorMessage VARCHAR2(200);
22   BEGIN
23     V_ErrorCode := SQLCODE;
24     V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
25     DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
26     DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :
'||V_ErrorMessage);
27   INSERT INTO TrappedMessages(ErrorNum, ErrorMsg, TrapDate)
28     VALUES(V_ErrorCode, V_ErrorMessage, SYSDATE);
29   END;
30 END;
31 /
```

Enter value for deptnumber: 30
Enter value for deptname: SHIPPING
Enter value for deptlocation: CHENNAI
The Error Code Traced is : -1
The Error Message Traced is : ORA-00001: unique constraint
(SCOTT.DEPT_PRIMARY_KEY) violated

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for deptnumber: NULL
Enter value for deptname: CARGO
Enter value for deptlocation: MUMBAI
The Error Code Traced is : -1400
The Error Message Traced is : ORA-01400: cannot insert NULL into
("SCOTT"."DEPT"."DEPTNO")
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for deptnumber: 50
Enter value for deptname: CARGO
Enter value for deptlocation: CHENNAI
Insert is Successfull
```

PL/SQL procedure successfully completed.

```
SQL> SELECT * FROM MyAudit;
```

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

USERNAME MODDATE

MESSAGE

SCOTT 22-AUG-18
Record Inserted Successfully

SQL> SELECT * FROM TrappedMessages;

 ERRORNUM

 ERRORMSG

 TRAPDATE

 -1
ORA-00001: unique constraint (SCOTT.DEPT_PRIMARY_KEY) violated
22-AUG-18

 -1400
ORA-01400: cannot insert NULL into ("SCOTT"."DEPT"."DEPTNO")
22-AUG-18

SQL> SPOOL OFF

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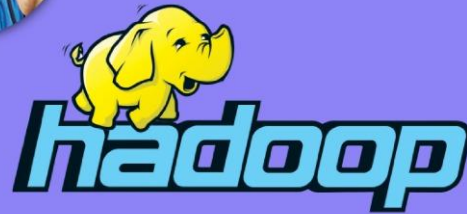
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 **9985798869**

Oracle By Sathish

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