PRACTICAL 6

SQL\*Plus: Release 21.0.0.0.0 - Production on Wed Sep 3 14:21:06 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Fri Aug 29 2025 21:33:55 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> create table student\_mark(rollno int, name varchar(20), total\_mark int);

Table created.

SQL> insert into student\_mark values (101, 'vaishnavi', 1200);

1 row created.

SQL> insert into student\_mark values (102, 'Raju', 1000);

1 row created.

SQL> insert into student\_mark(rollno, name, total\_mark) values (103, 'maahi',900);

1 row created.

SQL> insert into student\_mark(rollno, name, total\_mark) values (104, 'pooja',800);

1 row created.

SQL> create table student\_result(rollno int, name varchar2(20), grade varchar(20));

Table created.

SQL> set serveroutput on

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog6.sql

Procedure created.

SQL> set serveroutput on

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog8.sql

Enter value for r: 102

old 7: r:=&r;

new 7: r:=102;

102Raju1st class with dist.

one record inserted

PL/SQL procedure successfully completed.

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog8.sql

Enter value for r: 101

old 7: r:=&r;

new 7: r:=101;

101vaishnavi1st class with dist.

one record inserted

PL/SQL procedure successfully completed.

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog8.sql

Enter value for r: 103

old 7: r:=&r;

new 7: r:=103;

103maahi1st class

one record inserted

PL/SQL procedure successfully completed.

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog8.sql

Enter value for r: 104

old 7: r:=&r;

new 7: r:=104;

104poojaFail

one record inserted

PL/SQL procedure successfully completed.

SQL> select \* from student\_result;

ROLLNO NAME GRADE

---------- -------------------- --------------------

102 Raju 1st class with dist.

101 vaishnavi 1st class with dist.

103 maahi 1st class

104 pooja Fail

SQL>

create or replace procedure proc\_grade (r in int, gt in int, grade out varchar2)

is

begin

if gt <= 1500 and gt >= 990 then

grade:='1st class with dist.';

elsif gt <= 989 and gt >= 900 then

grade:='1st class';

elsif gt <= 899 and gt >= 825 then

grade:='2nd class';

else

grade:='Fail';

end if;

end;

/

declare

r int;

total int;

nm varchar2(20);

gr varchar2(20);

begin

r:=&r;

select rollno,name,total\_mark into r,nm,total from student\_mark where rollno =r;

proc\_grade(r,total,gr);

dbms\_output.put\_line(r||nm||gr);

insert into student\_result (rollno,name,grade)values(r,nm,gr);

dbms\_output.put\_line('one record inserted');

end;

/

CREATE OR REPLACE PROCEDURE proc\_Grade (

p\_name IN VARCHAR2,

p\_marks IN NUMBER

) AS

v\_class VARCHAR2(30);

BEGIN

IF p\_marks >= 990 AND p\_marks <= 1500 THEN

v\_class := 'Distinction';

ELSIF p\_marks >= 900 AND p\_marks <= 989 THEN

v\_class := 'First Class';

ELSIF p\_marks >= 825 AND p\_marks <= 899 THEN

v\_class := 'Higher Second Class';

ELSE

v\_class := 'Not Classified';

END IF;

INSERT INTO results (name, class)

VALUES (p\_name, v\_class);

END;

/

BEGIN

FOR rec IN (SELECT name, total\_marks FROM stude\_marks) LOOP

proc\_Grade(rec.name, rec.total\_marks);

END LOOP;

END;

/

SQL\*Plus: Release 21.0.0.0.0 - Production on Wed Aug 13 21:42:08 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Wed Aug 13 2025 21:39:35 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> create table stude\_marks(

2 name varchar(30),

3 total\_marks number

4 );

Table created.

SQL> create table results (

2 roll number generated always as identity primary key,

3 name varchar(20),

4 class varchar(30)

5 );

Table created.

SQL> INSERT INTO Stud\_Marks (Name, Total\_Marks) VALUES ('vaishnavi', 1200);

1 row created.

SQL> INSERT INTO Stude\_marks (name, total\_marks) VALUES ('vaishnavi, 1100);

1 row created.

SQL> INSERT INTO Stude\_marks (name, total\_marks) VALUES ('’Raju, 1200);

1 row created.

SQL> INSERT INTO Stude\_marks (name, total\_marks) VALUES ('pooja', 900);

1 row created.

SQL> INSERT INTO Stude\_marks (name, total\_marks) VALUES ('divya', 850);

1 row created.

SQL> commit;

Commit complete.

SQL> select \* from stude\_marks;

NAME TOTAL\_MARKS

------------------------------ -----------

vaishnavi 1100

Raju 1200

pooja 900

divya 850

SQL> select \* from results;

no rows selected

SQL> SET SERVEROUTPUT ON;

SQL> @C:\Users\Projectlab\Desktop\PLsql\plsql.sql

Procedure created.

PL/SQL procedure successfully completed.

SQL> select \* from stude\_marks;

NAME TOTAL\_MARKS

------------------------------ -----------

vaishnavi 1100

Raju 1200

pooja 900

divya 850

SQL> select \* from results;

ROLL NAME CLASS

---------- -------------------- ------------------------------

1 vaishnavi Distinction

2 Raju Distinction

3 pooja First Class

4 divya Higher Second Class

SQL> select class, count(\*) as total\_students

2 from results

3 group by class;

CLASS TOTAL\_STUDENTS

------------------------------ --------------

Distinction 2

First Class 1

Higher Second Class 1

SQL> select vaishnavi

2 from results

3 where class = 'Distinction';

select vaishnavi

\*

ERROR at line 1:

ORA-00904: "VAISHNAVI": invalid identifier

SQL> select vaishnavi

2 from results

3 where class = 'Distinction';

select vaishnavi

\*

ERROR at line 1:

ORA-00904: "Vaishnavi": invalid identifier

SQL> select name

2 from results

3 where class = 'Distinction'

4 and name = 'vaishnavi';

NAME

--------------------

vaishnavi

SQL>

SQL\*Plus: Release 21.0.0.0.0 - Production on Thu Sep 4 09:47:49 2025

Version 21.3.0.0.0

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Enter user-name: system

Enter password:

Last Successful login time: Wed Sep 03 2025 14:58:32 +05:30

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> select \* from student\_mark;

ROLLNO NAME TOTAL\_MARK

---------- -------------------- ----------

101 vaishnavi 1200

102 Raju 1000

103 maahi 900

104 pooja 800

SQL> select \* from student\_result;

ROLLNO NAME GRADE

---------- -------------------- --------------------

102 vaishnavi 1st class with dist.

101 Raju 1st class with dist.

103 maahi 1st class

104 pooja Fail

SQL> insert into student\_mark (rollno,name,total\_mark) values (105,'anuj',899);

1 row created.

SQL> insert into student\_mark (rollno,name,total\_mark) values (106,'divya',925);

1 row created.

SQL> set serveroutput on

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog6.sql

Procedure created.

SQL> @C:\Users\Projectlab\Desktop\plsqlplus\prog9.sql

101vaishnavi1st class with dist.

102Raju1st class with dist.

103maahi1st class

104poojaFail

105anuj2nd class

106divya1st class

PL/SQL procedure successfully completed.

SQL> select \* from student\_mark;

ROLLNO NAME TOTAL\_MARK

---------- -------------------- ----------

101 vaishnavi 1200

102 Raju 1000

103 maahi 900

104 pooja 800

105 anuj 899

106 divya 925

6 rows selected.

SQL> select \* from student\_result;

ROLLNO NAME GRADE

---------- -------------------- --------------------

102 vaishnavi 1st class with dist.

101 Raju 1st class with dist.

103 maahi 1st class

104 pooja Fail

101vaishnavi 1st class with dist.

102 Raju 1st class with dist.

103 maahi 1st class

104 pooja Fail

105 anuj 2nd class

106 divya 1st class

10 rows selected.

SQL>

create or replace procedure proc\_grade (r in int, gt in int, grade out varchar2)

is

begin

if gt <= 1500 and gt >= 990 then

grade:='1st class with dist.';

elsif gt <= 989 and gt >= 900 then

grade:='1st class';

elsif gt <= 899 and gt >= 825 then

grade:='2nd class';

else

grade:='Fail';

end if;

end;

/

declare

rec student\_mark % rowtype;

grade varchar(20);

begin

for rec in (select rollno,name,total\_mark from student\_mark) loop

proc\_grade(rec.rollno,rec.total\_mark, grade);

dbms\_output.put\_line(rec.rollno|| rec.name||grade);

insert into student\_result values(rec.rollno,rec.name,grade);

end loop;

end;

/