Aim: Write a Stored Procedure namely proc\_Grade for the categorization of student.

If marks scored by students in examination is <=1500 and marks>=990 then student will be

placed in distinction category if marks scored are between 989 and 900 category is first class,

if marks 899 and 825 category is Higher Second Class .

Write a PL/SQL block for using procedure created with above requirement.

stud\_marks(roll\_no, name, total\_marks) result(Roll,Name, Class)

\*\*\*\*\*\*\* Create Table stud\_marks and result: \*\*\*\*\*\*\*

create table stud\_marks(roll\_no number(20),name varchar2(20), total\_marks number(20));

insert into stud\_marks values(1,'Ganesh',1200);

insert into stud\_marks values(2,'Ram',950);

insert into stud\_marks values(3,'Sai',850);

insert into stud\_marks values(4,'Laxman',800);

select \* from stud\_marks;

create table result (roll\_no number(20),name varchar2(20), class varchar2(20));

select \* from result;

\*\*\*\*\* Main Procedure proc\_grade \*\*\*\*\*

Create or replace procedure proc\_grade

(var\_rollno in number,

p\_roll\_no out stud\_marks.roll\_no%type,

p\_name out stud\_marks.name%type,

p\_total out stud\_marks.total\_marks%type)

AS

BEGIN

SELECT roll\_no, name, total\_marks into p\_roll\_no, p\_name, p\_total from stud\_marks where

roll\_no=var\_rollno;

IF p\_total <=1500 and p\_total >= 990 THEN

insert into result values(p\_roll\_no,p\_name,'Distinction');

Else if p\_total <=989 and p\_total >= 900 THEN

insert into result values(p\_roll\_no,p\_name,'First Class');

Else if p\_total <=899 and p\_total >= 825 THEN

insert into result values(p\_roll\_no,p\_name,'HSC');

Else

insert into result values(p\_roll\_no,p\_name,'fail');

End if;

End if;

End if;

EXCEPTION

WHEN no\_data\_found then

dbms\_output.put\_line('Roll no ' || var\_rollno ||' not found');

END;

/

\*\*\*\*\* Calling Procedure \*\*\*\*\*

DECLARE

var\_rollno number(20);

p\_roll\_no stud\_marks.roll\_no%type;

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p\_name stud\_marks.name%type;

p\_total stud\_marks.total\_marks%type;

BEGIN

var\_rollno:=&var\_rollno;

Proc\_grade(var\_rollno,p\_roll\_no,p\_name,p\_total);

END;

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SQL> create table stud\_marks(Roll\_no number(20),name varchar2(20), total\_marks

number(20));

Table created.

SQL> insert into stud\_marks values(1,'Ganesh',1200);

1 row created.

SQL> insert into stud\_marks values(2,'Ram',950);

1 row created.

SQL> insert into stud\_marks values(3,'Sai',850);

1 row created.

SQL> insert into stud\_marks values(4,'Laxman',800);

1 row created.

SQL> select \* from stud\_marks;

ROLL\_NO NAME TOTAL\_MARKS

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1 Ganesh 1200

2 Ram 950

3 Sai 850

4 Laxman 800

SQL> create table result (roll\_no number(20),name varchar2(20), class varchar2(20));

Table created.

SQL> select \* from result;

no rows selected

SQL> Create or replace procedure proc\_grade

2 (var\_rollno in number,

3 p\_roll\_no out stud\_marks.roll\_no%type,

4 p\_name out stud\_marks.name%type,

5 p\_total out stud\_marks.total\_marks%type)

6 AS

7 BEGIN

8 SELECT roll\_no, name, total\_marks into p\_roll\_no, p\_name, p\_total from stud

\_marks where roll\_no=var\_rollno;

9 IF p\_total <=1500 and p\_total >= 990 THEN

10 insert into result values(p\_roll\_no,p\_name,'Distinction');

11 Else if p\_total <=989 and p\_total >= 900 THEN

12 insert into result values(p\_roll\_no,p\_name,'First Class');

13 Else if p\_total <=899 and p\_total >= 825 THEN

14 insert into result values(p\_roll\_no,p\_name,'HSC');

15 Else

16 insert into result values(p\_roll\_no,p\_name,'fail');

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17 End if;

18 End if;

19 End if;

20 EXCEPTION

21 WHEN no\_data\_found then

22 dbms\_output.put\_line('Roll no ' || var\_rollno ||' not found');

23 END;

24 /

Procedure created.

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SQL> DECLARE

2 var\_rollno number(20);

3 p\_roll\_no stud\_marks.roll\_no%type;

4 p\_name stud\_marks.name%type;

5 p\_total stud\_marks.total\_marks%type;

6 BEGIN

7 var\_rollno:=&var\_rollno;

8 Proc\_grade(var\_rollno,p\_roll\_no,p\_name,p\_total);

9 END;

10 /

Enter value for var\_rollno: 2

old 7: var\_rollno:=&var\_rollno;

new 7: var\_rollno:=2;

PL/SQL procedure successfully completed.

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SQL> select \* from result;

ROLL\_NO NAME CLASS

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2 Ram First Class

SQL> DECLARE

2 var\_rollno number(20);

3 p\_roll\_no stud\_marks.roll\_no%type;

4 p\_name stud\_marks.name%type;

5 p\_total stud\_marks.total\_marks%type;

6 BEGIN

7 var\_rollno:=&var\_rollno;

8 Proc\_grade(var\_rollno,p\_roll\_no,p\_name,p\_total);

9 END;

10 /

Enter value for var\_rollno: 1

old 7: var\_rollno:=&var\_rollno;

new 7: var\_rollno:=1;

PL/SQL procedure successfully completed.

SQL> select \* from result;

ROLL\_NO NAME CLASS

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2 Ram First Class

1 Ganesh Distinction

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SQL> DECLARE

2 var\_rollno number(20);

3 p\_roll\_no stud\_marks.roll\_no%type;

4 p\_name stud\_marks.name%type;

5 p\_total stud\_marks.total\_marks%type;

6 BEGIN

7 var\_rollno:=&var\_rollno;

8 Proc\_grade(var\_rollno,p\_roll\_no,p\_name,p\_total);

9 END;

10 /

Enter value for var\_rollno: 3

old 7: var\_rollno:=&var\_rollno;

new 7: var\_rollno:=3;

PL/SQL procedure successfully completed.

SQL> DECLARE

2 var\_rollno number(20);

3 p\_roll\_no stud\_marks.roll\_no%type;

4 p\_name stud\_marks.name%type;

5 p\_total stud\_marks.total\_marks%type;

6 BEGIN

7 var\_rollno:=&var\_rollno;

8 Proc\_grade(var\_rollno,p\_roll\_no,p\_name,p\_total);

9 END;

10 /

Enter value for var\_rollno: 4

old 7: var\_rollno:=&var\_rollno;

new 7: var\_rollno:=4;

PL/SQL procedure successfully completed.

SQL> select \* from result;

ROLL\_NO NAME CLASS

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2 Ram First Class

1 Ganesh Distinction

3 Sai HSC

4 Laxman fail

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