Pl/Sql Assignment 4

1. Code:

create table library\_table

(

rno number(5,0),

book\_no number(5,0),

date\_of\_issue date,

date\_of\_return date,

primary key(rno)

);

create table late\_return

(

rno number(5,0),

book\_no number(5,0),

foreign key(rno) references library\_table(rno)

);

insert into library\_table(rno,book\_no,date\_of\_issue,date\_of\_return) values (100,1234,'13-Oct-19','4-Nov-19');

declare

no\_of\_days number(2,0);

entry library\_table%rowtype;

delayed\_return exception;

begin

select \* into entry from library\_table where rno=100;

no\_of\_days:=entry.date\_of\_return-entry.date\_of\_issue;

if no\_of\_days>15 then

raise delayed\_return;

end if;

exception

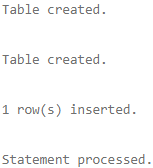
when delayed\_return then

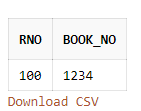
insert into late\_return(rno,book\_no) values (entry.rno,entry.book\_no);

end;

select \* from late\_return;

Output:





2. Code:

create table library\_table

(

rno number(5,0),

book\_no number(5,0),

date\_of\_issue date,

date\_of\_return date,

primary key(rno)

);

create table errors

(

error\_code number(5,0),

error\_msg varchar(50)

);

insert into library\_table(rno,book\_no,date\_of\_issue,date\_of\_return) values (100,1234,'13-Oct-19','4-Nov-19');

insert into library\_table(rno,book\_no,date\_of\_issue,date\_of\_return) values (200,5678,'20-Dec-19','11-Jan-20');

declare

a int;

i int;

ec number(5,0);

em varchar(50);

entry library\_table%rowtype;

begin

i:=0;

<<trans>>

begin

i:=i+1;

if i=1 then

select \* into entry from library\_table where rno=300;

elsif i=2 then

select \* into entry from library\_table;

elsif i=3 then

insert into library\_table(rno,book\_no,date\_of\_issue,date\_of\_return) values (200,9012,'17-Feb-20','5-Mar-20');

elsif i=4 then

insert into library\_table(rno,book\_no,date\_of\_issue,date\_of\_return) values (300,'9O12','17-Feb-20','5-Mar-20');

elsif i=5 then

a:=to\_number('555S');

elsif i=6 then

a:=1/0;

end if;

exception

when others then

ec:=sqlcode;

em:=substr(sqlerrm,1,50);

insert into errors(error\_code,error\_msg) values (ec,em);

end;

if (i<=6) then

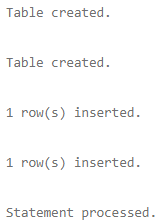
goto trans;

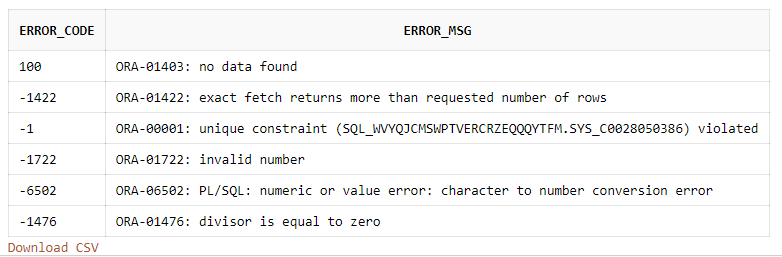
end if;

end;

select \* from errors;

Output:





3. Code:

begin

declare

n number(5,0):='111I';

begin

NULL;

end;

exception

when others then

dbms\_output.put\_line('An error in declare section of inner block has occurred which is being handled by enclosing block. ');

end;

Output:



4. Code:

begin

declare

n number(5,0);

begin

n:='888B';

exception

when others then

dbms\_output.put\_line('An error in begin section has occurred.');

n:='888B';

end;

exception

when others then

dbms\_output.put\_line('An error in exception section of inner block in being handled in enclosing block.');

end;

Output:



5. Code:

begin

declare

n number(5,0);

begin

n:='666b';

exception

when others then

dbms\_output.put\_line('An error occurred in this block will now be again raised to be handled by its enclosing block.');

raise;

end;

exception

when others then

dbms\_output.put\_line('An error occured in begin section of inner block is now being handled in its enclosing block.');

end;

Output:



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