NAME:- SHUBHAM SAXENA

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DDL WORKSHEET-XV

I. Write a PLSQL block with exception handling while selecting rows from the EMPLOYEE table (Example: NO_DATA_FOUND and ZERO_DIVIDE etc.)

```
SQL> Declare
  2  ni number;
  3  n2 number;
  4  begin
  5  n2:=&n2;
  6  select sal into ni from emp where empno=1689;
  7  ni:=ni/n2;
  8  Exception
  9  when zero_divide then
 10  dbms_output.put_line('Zero Divide Error!');
 11  when no_data_found then
 12  dbms_output.put_line('No such row in employee table');
 13  when others then
 14  dbms_output.put_line('Unknown exception');
 15  end;
 16  /
Enter value for n2: 3
old   5: n2:=&n2;
new   5: n2:=3;

PL/SQL procedure successfully completed.
```

```
SQL> Declare
  2  n1 number;
  3  n2 number;
  4  Begin
  5  n2 := &n2;
  6  Select sal into n1 from emp where empno=9999;
  7  n1 := n1/n2;
  8  Exception
  9  when zero_divide then
 10  dbms_output.put_line('Zero Divide Error !');
 11  when no_data_found then
 12  dbms_output.put_line('No such Row in customer table');
 13  when others then
 14  dbms_output.put_line('Unknown exception');
 15  end;
 16  /
Enter value for n2: 4
old   5: n2 := &n2;
new   5: n2 := 4;

PL/SQL procedure successfully completed.
```
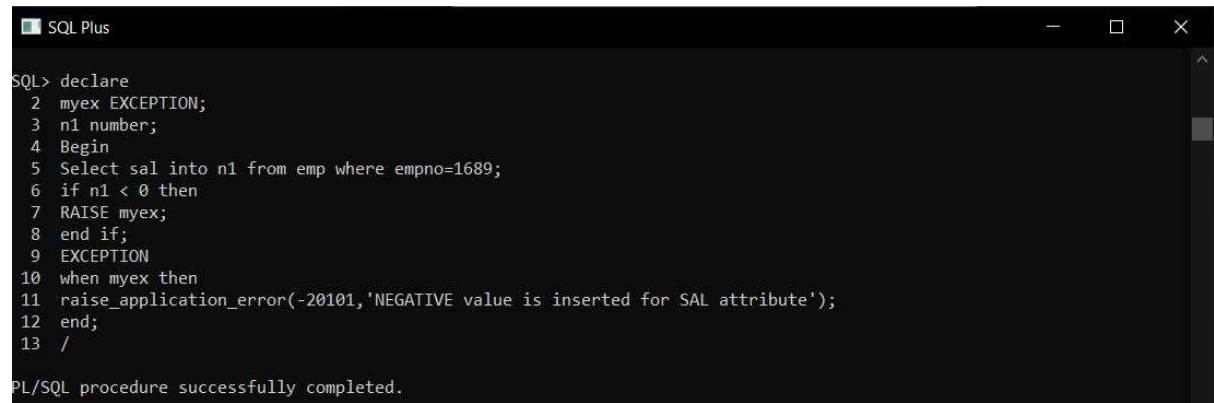
II. Write a PLSQL block with user-defined exception: Display error message if an invalid EMPNO is given for MGR column.

```
SQL> declare
  2  n emp.empno%type;
  3  mgr emp.mgr%type;
  4  invalid_mgr exception;
  5  e_no emp.empno%type;
  6  begin
  7  e_no:=&e_no;
  8  if e_no<=0 then
  9  raise invalid_mgr;
 10  else
 11  select empno,mgr into n,mgr from emp where
 12  empno=e_no;
 13  DBMS_OUTPUT.PUT_LINE(n||mgr);
 14  end if;
 15  exception
 16  when invalid_mgr then
 17  dbms_output.put_line('Wrong empno');
 18  end;
 19  /
Enter value for e_no: 1689
old   7: e_no:=&e_no;
new   7: e_no:=1689;

PL/SQL procedure successfully completed.
```

III. Display error message using RAISE_APPLICATION_ERROR when negative/NULL value is inserted for SALARY attribute.

```
SQL Plus                                                    —  □  ×

SQL> declare
  2  myex EXCEPTION;
  3  n1 number;
  4  Begin
  5  Select sal into n1 from emp where empno=1689;
  6  if n1 < 0 then
  7  RAISE myex;
  8  end if;
  9  EXCEPTION
 10  when myex then
 11  raise_application_error(-20101,'NEGATIVE value is inserted for SAL attribute');
 12  end;
 13  /

PL/SQL procedure successfully completed.
```