drop table StudentTable;

create table StudentTable(

  RollNo int,

  GPA float

);

insert into StudentTable values(1, 5.8);

insert into StudentTable values(2, 6.5);

insert into StudentTable values(3, 3.4);

insert into StudentTable values(4, 7.8);

insert into StudentTable values(5, 9.5);

q1. declare

    r studenttable.RollNo%TYPE;

    g studenttable.GPA%TYPE;

BEGIN

    r := '&rn';

    SELECT gpa into g from studenttable where rollno=r;

    dbms\_output.put\_line('the gpa is ' || g);

end;

q2. declare

    r studenttable.RollNo%TYPE;

    g studenttable.GPA%TYPE;

BEGIN

    r := '&rn';

    select gpa into g from studenttable where rollno = r;

    if g between 0 and 4 THEN

    dbms\_output.put\_line('F');

    else

    dbms\_output.put\_line('A');

end;

q3. select \* from studenttable

declare

issue date;

returnd date;

days int;

fine int;

begin

    issue := to\_date('&i', 'dd/mm/yyyy');

    returnd := to\_date('&r', 'dd/mm/yyyy');

    days :=  issue - returnd;

    if days between 0 and 7 THEN

    fine:=0;

    elsif days between 8 and 15 then

    fine:= 1\*(days-7);

    elsif days between 16 and 30 THEN

    fine:= (days-7) + 2\*(days-15);

    ELSE

    fine:= 5\*(days-30) + (days-7) + 2\*(days-15);

    end if;

    dbms\_output.put\_line('the fine is ' || fine);

    end;

q4. declare

    r studenttable.RollNo%TYPE := 1;

    g studenttable.GPA%TYPE;

BEGIN

    loop

    select gpa into g from studenttable where rollno = r;

    dbms\_output.put\_line(r ||': ' || g);

    r := r+1;

    if r>5 then exit;

    end if;

    end loop;

end;

q5. DECLARE

g studenttable.gpa%type;

r studenttable.rollno%type;

l studenttable.lettergrade%type;

i int := 1;

begin

    while i<6

    LOOP

        select gpa, lettergrade into g, l from studenttable where rollno = i;

        if g between 0 and 2 then

        l := 'F';

        elsif g between 3 and 7 then

        l := 'E';

        else

        l := 'A';

        end if;

        dbms\_output.put\_line(i ||': '|| l);

        i := i+1;

        end loop;

        end;

Q6. DECLARE

g studenttable.GPA%TYPE;

max studenttable.gpa%type := 0;

begin

    for r in 1..5 loop

    select gpa into g from studenttable where rollno = r;

    if g>max then

    max:=g;

    end if;

    end loop;

    dbms\_output.put\_line('the max is ' || max);

    end;

q7. declare

    r studenttable.RollNo%TYPE := 1;

    g studenttable.GPA%TYPE;

BEGIN

    <<hi>>

    select gpa into g from studenttable where rollno = r;

    dbms\_output.put\_line(r ||': ' || g);

    r := r+1;

    if r<6 then

    goto hi;

    end if;

end;

q8. declare

a instructor.id%type;

b instructor.name%type;

c instructor.dept\_name%type;

d instructor.salary%type;

begin

    b := '&bb';

    select id, dept\_name, salary into a, c, d from instructor  where instructor.name = b;

    dbms\_output.put\_line(a || ' '|| c||' '|| d);

    EXCEPTION

    WHEN TOO\_MANY\_ROWS THEN

    dbms\_output.put\_line('too many hoes');

    WHEN NO\_DATA\_FOUND THEN

    dbms\_output.put\_line('nahhhh');

    end;