10.

Cursors: Write a PL/SQL block of code using parameterized Cursor that will merge the data available in the newly created table N\_RollCall (roll number (10), name varchar (10)) with the data available in the table O\_RollCall (roll number (10), name varchar (10)). If the data in the first table already exist in the second table, then that data should be skipped

-- N\_RollCall Table

CREATE TABLE N\_RollCall (

rollno INT PRIMARY KEY,

name VARCHAR2(10)

);

-- O\_RollCall Table

CREATE TABLE O\_RollCall (

rollno INT PRIMARY KEY,

name VARCHAR2(10)

);

-- Insert data into N\_RollCall and O\_RollCall

INSERT INTO N\_RollCall (rollno, name) VALUES (1, 'Alice');

INSERT INTO N\_RollCall (rollno, name) VALUES (2, 'Bob');

INSERT INTO N\_RollCall (rollno, name) VALUES (3, 'Charlie');

INSERT INTO O\_RollCall (rollno, name) VALUES (2, 'Bob');

INSERT INTO O\_RollCall (rollno, name) VALUES (4, 'David');

select \* from N\_RollCall;

-- Execute the PL/SQL block

-- Declare the PL/SQL Block

DECLARE

-- Define the cursor to select roll number and name from N\_RollCall table

CURSOR cur\_n\_rollcall(p\_rollno IN NUMBER) IS

SELECT rollno, name

FROM N\_RollCall

WHERE rollno = p\_rollno;

-- Variable to hold roll number and name from N\_RollCall

v\_rollno N\_RollCall.rollno%TYPE;

v\_name N\_RollCall.name%TYPE;

BEGIN

-- Loop through each roll number in N\_RollCall

FOR r IN (SELECT rollno, name FROM N\_RollCall) LOOP

-- Open the cursor with the current roll number

OPEN cur\_n\_rollcall(r.rollno);

-- Fetch the rollno and name from the cursor

FETCH cur\_n\_rollcall INTO v\_rollno, v\_name;

-- Check if the roll number already exists in O\_RollCall

IF v\_rollno IS NOT NULL THEN

BEGIN

-- Insert the data into O\_RollCall if it doesn't already exist

INSERT INTO O\_RollCall (rollno, name)

SELECT v\_rollno, v\_name FROM dual

WHERE NOT EXISTS (SELECT 1 FROM O\_RollCall WHERE rollno = v\_rollno);

COMMIT; -- Commit the transaction

EXCEPTION

WHEN OTHERS THEN

-- Handle any errors

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error occurred: ' || SQLERRM);

END;

END IF;

-- Close the cursor after use

CLOSE cur\_n\_rollcall;

END LOOP;

END;

/

Select \* from O\_RollCall;

Alternate code

Declare

cursor crsr\_class is select \* from O\_RollCall;

cursor crsr\_chk(str\_name varchar) is select roll from N\_RollCall where name =

str\_name;

str\_roll N\_RollCall.roll%type;

str\_name N\_RollCall.name%type;

v varchar(10);

Begin

Open crsr\_class;

Loop

fetch crsr\_class into str\_roll,str\_name;

Exit When crsr\_class%NOTFOUND;

Open crsr\_chk(str\_name);

Fetch crsr\_chk into v;

if crsr\_chk%FOUND Then

dbms\_output.put\_line('brach'|| str\_name || 'exist');

Else

dbms\_output.put\_line('brach'|| str\_name || ' not exist. Inserting in

N\_RollCall table');

insert into N\_RollCall values(str\_roll,str\_name); End if;

Close crsr\_chk;

End loop;