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set serveroutput on;

drop table Customer;
create table Customer(id int primary key,
                      name varchar(20), age int, address
                      varchar(30), sal int, hiredate date);

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insert into Customer values(1, 'Alice', 20, 'Address1', 10000,
TO_DATE('2021/01/01','%yyyy-%mm-%dd'));
insert into Customer values(2, 'Bob', 30, 'Address2', 20000,
TO_DATE('2020/01/01','%yyyy-%mm-%dd'));
insert into Customer values(3, 'Cindy', 40, 'Address3', 30000,
TO_DATE('2019/01/01','%yyyy-%mm-%dd'));
insert into Customer values(4, 'Sam', 50, 'Address4', 40000,
TO_DATE('2018/01/01','%yyyy-%mm-%dd'));
insert into Customer values(5, 'Eric', 60, 'Address5', 50000,
TO_DATE('2017/01/01','%yyyy-%mm-%dd'));
insert into Customer values(6, 'Tom', 20, 'Address6', 60000,
TO_DATE('2016/01/01','%yyyy-%mm-%dd'));
insert into Customer values(7, 'John', 30, 'Address7', 70000,
TO_DATE('2015/01/01','%yyyy-%mm-%dd'));
insert into Customer values(8, 'Sari', 40, 'Address8', 80000,
TO_DATE('2014/01/01','%yyyy-%mm-%dd'));
insert into Customer values(9, 'Timo', 50, 'Address9', 90000,
TO_DATE('2013/01/01','%yyyy-%mm-%dd'));
insert into Customer values(10, 'Skove', 60, 'Address10', 100000,
TO_DATE('2012/01/01','%yyyy-%mm-%dd'));

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select * from Customer;

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Experiment 1:

Write a pl/sql program using cursor to display the id, name, age, salary, and date of join of all employees in Customer table.

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DECLARE CURSOR cursor0 IS
SELECT id, name, age, sal , hiredate FROM Customer;
    --variable definition
    e_name Customer.name%type;
    e_id Customer.id%type;
    e_sal Customer.sal%type;
    e_age Customer.id%type;
    e_date Customer.hiredate%type;
BEGIN

    -- open cursor
    OPEN cursor0;
    LOOP
        FETCH cursor0 INTO e_id, e_name, e_age, e_sal, e_date;
        -- exit condition

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EXIT WHEN cursor0%NOTFOUND;

-- print employee info
dbms_output.put_line('Employee Id:'||e_id);
dbms_output.put_line('Employee Name:'||e_name);
dbms_output.put_line('Employee Age:'||e_age);
dbms_output.put_line('Salary :'||e_sal);
dbms_output.put_line('Hire Date:'||to_char(e_date));
dbms_output.put_line('=====');
END LOOP;
-- close cursor
CLOSE cursor0;
END;

/*
Experiment 2:
To write a Cursor to display the list of 5 highest paid Employees and their Total
Salary
*/
DECLARE CURSOR cursor1 IS
SELECT id, name, sal FROM Customer ORDER BY sal DESC;
--variable definition
c_name Customer.name%type;
c_id Customer.id%type;
c_sal Customer.sal%type;
c_tot Customer.sal%type;
i int;
BEGIN
-- initialize variables
c_tot:=0;
-- open cursor
OPEN cursor1;
-- taking first 5 values
FOR i in 1..5
LOOP
    FETCH cursor1 INTO c_id, c_name, c_sal;
    -- exit condition
    EXIT WHEN cursor1%NOTFOUND;
    -- find total salary
    c_tot:=c_tot+c_sal;
    dbms_output.put_line('EMPLOYEE ID:'||c_id);
    dbms_output.put_line('EMPLOYEE NAME:'||c_name);
    dbms_output.put_line('SALARY:'||c_sal);
    dbms_output.put_line('*****');
END LOOP;

dbms_output.put_line('TOTAL SALARY:'||c_tot);
COMMIT;
CLOSE cursor1;
END;

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/*
Experiment 3:
To write a Cursor to
Update the salary of the employee by 1000 ruppess if the experience >= 5 years
    else update salary by 500 rupees
*/
DECLARE CURSOR cursor2 IS
SELECT id, name, sal , hiredate FROM Customer;
    --variable definition
    e_name Customer.name%type;
    e_id Customer.id%type;
    e_sal Customer.sal%type;
    e_new_sal Customer.sal%type;
    e_date Customer.hiredate%type;
    i int;
    c_date date;
BEGIN
    -- initialize variables
    e_new_sal := 0;
    -- find date = (sysdate - 5 years)
    c_date := add_months( trunc(SYSDATE), -12*5 );

    -- open cursor
OPEN cursor2;
    LOOP
        FETCH cursor2 INTO e_id, e_name, e_sal, e_date;
        -- exit condition
        EXIT WHEN cursor2%NOTFOUND;

        -- print employee info
        dbms_output.put_line('Employee Id: '||e_id);
        dbms_output.put_line('Employee Name: '||e_name);
        dbms_output.put_line('Salary : '||e_sal);
        dbms_output.put_line('Hire Date: '||to_char(e_date));
        -- check if grater than 5 year
        if (e_date >= c_date) then
            dbms_output.put_line('Employee name: '||e_name || ' is Grater that 5
Years');
            e_new_sal := e_sal + 1000;
        else
            dbms_output.put_line('Employee name: '||e_name || ' is Less that 5
Years');
            e_new_sal := e_sal + 500;
        end if;
        dbms_output.put_line('-----');
        --update new salary
        dbms_output.put_line('New Salary : '||e_new_sal);
        update Customer set sal=e_new_sal where id = e_id;
        dbms_output.put_line('=====');
    END LOOP;
    -- close cursor

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        CLOSE cursor2;  
END;  
  
select * from Customer;
```