Sumedh ahire Class: FYMCA Roll No: 03

Subject: DBMS

Assignment No: 10

Assignment Title: Write a PL/SQL block for implementing arithmetic operations on any desired database. Make use of function to accept the input and return the result(s) of operation.

OR

Write a PI/SQL block to calculate gross salary on basis of basic salary. If DA is 40% of basic ,HRA is 20% of basic and PF deduction is 12% of basic salary.

Gross salary=Basic Salary+DA+HRA-PF

Accept basic salary from user and pass it to function, function will return gross salary.

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## Code:

create table employees(EMPLOYEE\_ID int PRIMARY KEY,ENAME varchar(20),BASIC\_SALARY number);

insert into employees values(1,'shital',40000); insert into employees values(2,'amol',39000); insert into employees values(3,'Deepak',9000); insert into employees values(4,'Mahesh',78000); insert into employees values(5,'Vinay',35000);

select \* from employees;

## **DECLARE**

BASIC\_SALARY employees.BASIC\_SALARY%TYPE;

da NUMBER; HRA NUMBER; pf NUMBER;

**GROSS\_SALARY NUMBER;** 

FUNCTION CALCULATE\_GROSS\_SALARY(p\_BASIC\_SALARY NUMBER) RETURN NUMBER IS

**BEGIN** 

da := p\_BASIC\_SALARY \* 0.4; -- DA is 40% of basic
HRA := p\_BASIC\_SALARY \* 0.2; -- HRA is 20% of basic
pf := p\_basic\_salary \* 0.12; -- PF deduction is 12% of basic salary
GROSS\_SALARY := p\_BASIC\_SALARY + da +HRA - pf; -- Calculate gross salary

RETURN GROSS\_SALARY; END CALCULATE GROSS SALARY;

## **BEGIN**

-- Accept basic salary from the user through the employees table SELECT BASIC\_SALARY INTO BASIC\_SALARY FROM employees
WHERE EMPLOYEE\_ID = :input\_EMPLOYEE\_ID;

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-- Call the function to calculate gross salary

GROSS_SALARY := CALCULATE_GROSS_SALARY(BASIC_SALARY);

-- Display the result

DBMS_OUTPUT.PUT_LINE('Basic SALARY:'||BASIC_SALARY);

DBMS_OUTPUT.PUT_LINE('Dearness Allowance :'||da);

DBMS_OUTPUT.PUT_LINE('House Rent Allowance :'||HRA);

DBMS_OUTPUT.PUT_LINE('Providend Fund:' || pf);

DBMS_OUTPUT.PUT_LINE('Gross salary:' || GROSS_SALARY);

EXCEPTION

WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('Employee not found.');

END;
```

## Output:

