**DBS311A Lab 6**

1.

create or replace PROCEDURE Even\_Odd(v\_value1 NUMBER)

IS

division NUMBER := 0;

BEGIN

division := MOD(v\_value1, 2);

IF division = 0

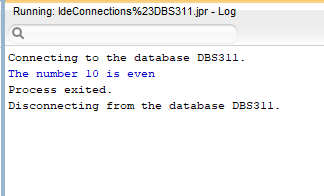
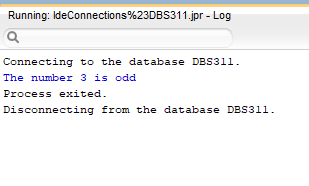
THEN DBMS\_OUTPUT.PUT\_LINE ('The number '|| v\_value1 ||' is even');

ELSE

DBMS\_OUTPUT.PUT\_LINE ('The number '|| v\_value1 ||' is odd');

END IF;

END Even\_Odd;



2.

create or replace PROCEDURE CALCULATE\_SALARY(emp\_id NUMBER)

IS

firstName employee.first\_name%TYPE;

lastName employee.last\_name%TYPE;

u\_salary employee.salary%TYPE;

hire\_year NUMBER;

current\_year NUMBER;

BEGIN

SELECT first\_name, last\_name, salary, EXTRACT(YEAR FROM (hire\_date)) INTO firstName, lastName,u\_salary, hire\_year FROM employee WHERE employee\_id=emp\_id;

SELECT EXTRACT(YEAR FROM (SYSDATE)) INTO current\_year FROM DUAL;

IF((current\_year-hire\_year)>2)

THEN

FOR i IN 2..(current\_year - hire\_year) LOOP

u\_salary:=u\_salary\*(1+5/100);

END LOOP;

END IF;

DBMS\_OUTPUT.PUT\_LINE ('First Name: '||firstName);

DBMS\_OUTPUT.PUT\_LINE ('Last Name: '||lastName);

DBMS\_OUTPUT.PUT\_LINE ('Annual Salary: $'||u\_salary);

EXCEPTION

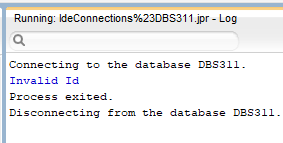
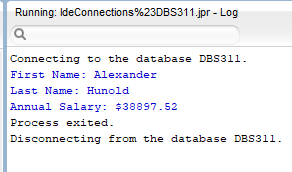
WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE ('Invalid Id');

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('SOME ERROR HAPPENED');

END CALCULATE\_SALARY;



3.

create or replace PROCEDURE FIND\_PROD\_PRICE(prod\_id IN NUMBER, p\_description OUT products.description%TYPE, status OUT VARCHAR) IS

p\_price products.list\_price%TYPE;

BEGIN

SELECT description, list\_price INTO p\_description, p\_price FROM products WHERE product\_id=prod\_id;

IF(p\_price < 200)

THEN

status:='Cheap';

ELSE

IF(p\_price >= 200 AND p\_price <=500)

THEN

status:='Not Expensive';

ELSE

IF(p\_price > 500)

THEN

status:='Expensive';

END IF;

END IF;

END IF;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE ('Invalid Id');

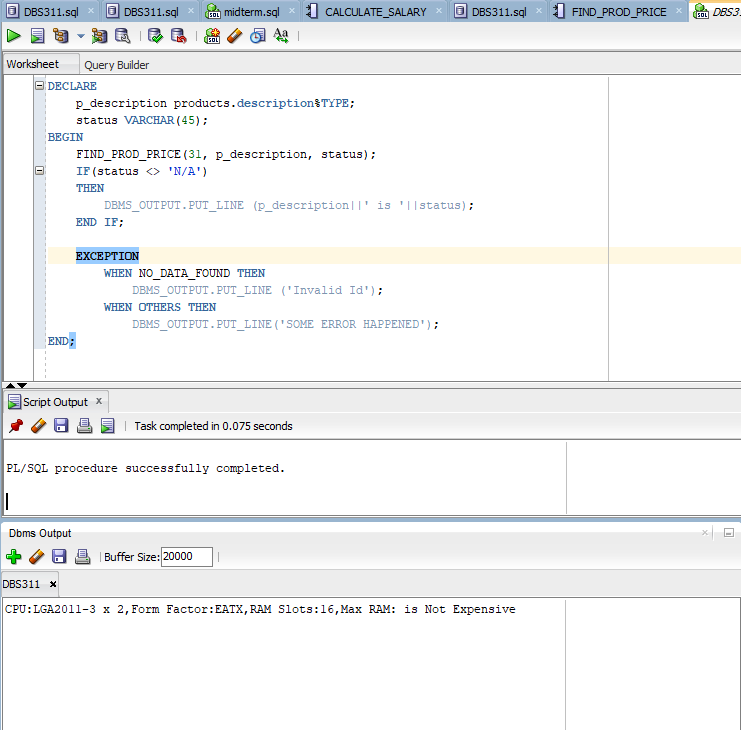
p\_description:='N/A';

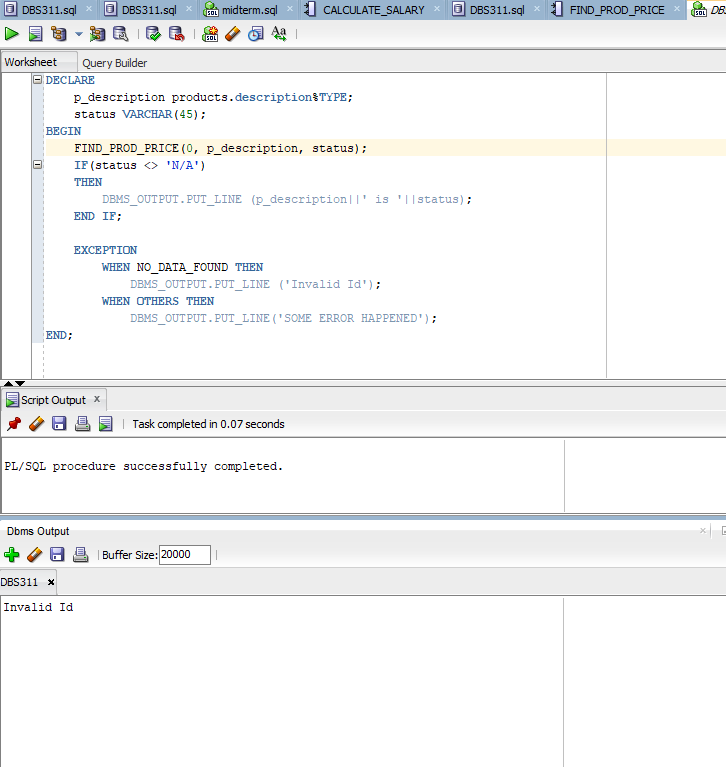
status:='N/A';

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('SOME ERROR HAPPENED');

END FIND\_PROD\_PRICE;





4.

create or replace PROCEDURE WAREHOUSES\_REPORT IS

wh\_id warehouses.warehouse\_id%TYPE;

wh\_name warehouses.warehouse\_name%TYPE;

wh\_city locations.city%TYPE;

wh\_state locations.state%TYPE;

BEGIN

FOR i IN 1..9 LOOP

SELECT warehouse\_id, warehouse\_name, city, state INTO wh\_id,wh\_name,wh\_city,wh\_state FROM warehouses JOIN locations USING(location\_id) WHERE warehouse\_id=i;

DBMS\_OUTPUT.PUT\_LINE('--------------');

DBMS\_OUTPUT.PUT\_LINE('Warehouse ID: '||wh\_id);

DBMS\_OUTPUT.PUT\_LINE('Warehouse name: '||wh\_name);

DBMS\_OUTPUT.PUT\_LINE('City: '||wh\_city);

IF(wh\_state IS NULL)

THEN

wh\_state:='no state';

END IF;

DBMS\_OUTPUT.PUT\_LINE('State: '||wh\_state);

END LOOP;

EXCEPTION

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('SOME ERROR HAPPENED');

END WAREHOUSES\_REPORT;

