E1:

DECLARE

name employees.first\_name%type;

salary employees.salary%type;

title jobs.job\_title%type;

title\_two jobs.job\_title%type;

CURSOR c IS

SELECT job\_title,first\_name,salary

FROM employees e

RIGHT JOIN jobs j ON e.job\_id=j.job\_id;

BEGIN

OPEN c;

LOOP

FETCH c INTO title,name,salary;

EXIT WHEN c%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(title);

DBMS\_OUTPUT.PUT\_LINE(name || ' ' || salary);

LOOP

FETCH c INTO title\_two,name,salary;

EXIT WHEN title\_two!=title;

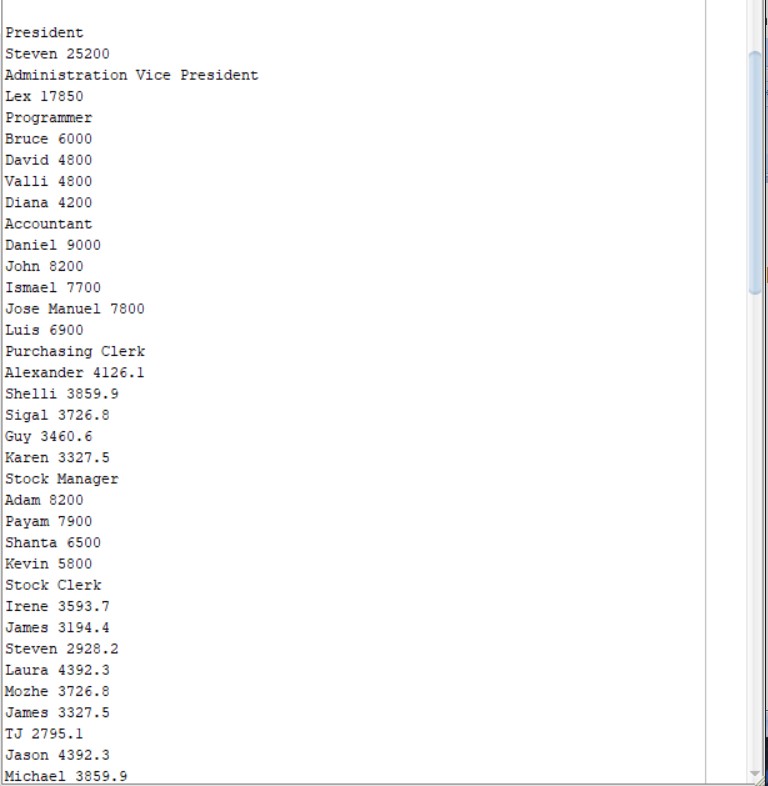
DBMS\_OUTPUT.PUT\_LINE(name || ' ' || salary);

END LOOP;

END LOOP;

CLOSE c;

END;



E2:

DECLARE

name employees.first\_name%type;

salary employees.salary%type;

title jobs.job\_title%type;

title\_two jobs.job\_title%type;

empNo NUMBER(3):= 0;

totalIncome NUMBER(10):= 0;

avgIncome NUMBER(10):= 0;

income NUMBER(10):= 0;

comission employees.commission\_pct%TYPE;

CURSOR c IS

SELECT job\_title,first\_name,salary,commission\_pct

FROM employees e

RIGHT JOIN jobs j ON e.job\_id=j.job\_id;

BEGIN

OPEN c;

LOOP

empNo:= 0;

totalIncome:= 0;

FETCH c INTO title,name,salary,comission;

empNo:=empNo+1;

IF comission IS NOT NULL

THEN

income:= salary + comission \* salary;

ELSE

income:= salary;

END IF;

totalIncome:= totalIncome + income;

EXIT WHEN c%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(title);

DBMS\_OUTPUT.PUT\_LINE(name || ' ' || salary);

LOOP

FETCH c INTO title\_two,name,salary,comission;

EXIT WHEN title\_two!=title;

empNo:=empNo+1;

IF comission IS NOT NULL

THEN

income:= salary + comission \* salary;

ELSE

income:= salary;

END IF;

DBMS\_OUTPUT.PUT\_LINE(name || ' ' || salary);

totalIncome:= totalIncome + income;

END LOOP;

avgIncome:= totalIncome / empNo;

DBMS\_OUTPUT.PUT\_LINE(empNo || ' ' || totalIncome || ' ' || avgIncome);

END LOOP;

CLOSE c;

END;

