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CS275 PL/SQL

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CS275 Direct Assignment 8

**Scripts:**

CREATE OR REPLACE PROCEDURE CALC\_COMMISSION

(SALES\_AMOUNT\_IN IN NUMBER,

COMMISSION\_PERCENT IN NUMBER,

COMMISSION OUT NUMBER)

IS

NO\_SALES EXCEPTION;

NEGATIVE\_SALES EXCEPTION;

NULL\_SALES EXCEPTION;

NEGATIVE\_COMMISSION EXCEPTION;

SALES\_COMMISSION NUMBER;

BEGIN

IF SALES\_AMOUNT\_IN = 0 THEN

COMMISSION := 0;

RAISE NO\_SALES;

ELSIF SALES\_AMOUNT\_IN < 0 THEN

COMMISSION := 0;

RAISE NEGATIVE\_SALES;

ELSIF SALES\_AMOUNT\_IN IS NULL THEN

COMMISSION := 0;

RAISE NULL\_SALES;

ELSE

SALES\_COMMISSION := SALES\_AMOUNT\_IN \* (COMMISSION\_PERCENT \* 100);

IF SALES\_COMMISSION < 0 THEN

COMMISSION := 0;

RAISE NEGATIVE\_COMMISSION;

ELSE

COMMISSION := SALES\_COMMISSION;

END IF;

END IF;

EXCEPTION

WHEN NO\_SALES THEN

DBMS\_OUTPUT.PUT\_LINE('ERROR: SALES VALUE WAS EQUIVALENT TO ZERO');

WHEN NEGATIVE\_SALES THEN

DBMS\_OUTPUT.PUT\_LINE('ERROR: SALES VALUE WAS NEGATIVE');

WHEN NULL\_SALES THEN

DBMS\_OUTPUT.PUT\_LINE('ERROR: SALES VALUE WAS NULL');

WHEN NEGATIVE\_COMMISSION THEN

DBMS\_OUTPUT.PUT\_LINE('ERROR: SALES COMMISSION WAS NEGATIVE');

END;

-- TESTING

set feedback on;

set serveroutput on;

DECLARE

NULL\_SALES NUMBER;

NULL\_RESULT NUMBER;

ZERO\_SALES NUMBER := 0;

ZERO\_RESULT NUMBER;

NEGATIVE\_SALES NUMBER := -1;

NEGATIVE\_RESULT NUMBER;

POSITIVE\_COMMISSION\_RATE NUMBER := 20;

NEGATIVE\_COMMISSION\_RATE NUMBER := -20;

NEGATIVE\_COMMISSION\_RESULT NUMBER;

BEGIN

CALC\_COMMISSION(4, NEGATIVE\_COMMISSION\_RATE, NEGATIVE\_COMMISSION\_RESULT);

DBMS\_OUTPUT.PUT\_LINE('RESULT FROM CALCULATING NEGATIVE COMMISSION RATE WAS ' || NEGATIVE\_COMMISSION\_RESULT);

CALC\_COMMISSION(NEGATIVE\_SALES, POSITIVE\_COMMISSION\_RATE, NEGATIVE\_RESULT);

DBMS\_OUTPUT.PUT\_LINE('RESULT FROM CALCULATING NEGATIVE SALES WAS ' || NEGATIVE\_RESULT);

CALC\_COMMISSION(ZERO\_SALES, POSITIVE\_COMMISSION\_RATE, ZERO\_RESULT);

DBMS\_OUTPUT.PUT\_LINE('RESULT FROM CALCULATING ZERO COMMISSION WAS ' || ZERO\_RESULT);

CALC\_COMMISSION(NULL\_SALES, POSITIVE\_COMMISSION\_RATE, NULL\_RESULT);

DBMS\_OUTPUT.PUT\_LINE('RESULT FROM CALCULATING NULL COMMISSION WAS ' || NULL\_RESULT);

END;

**Screenshots:**



