FINAL EXAM DB_2

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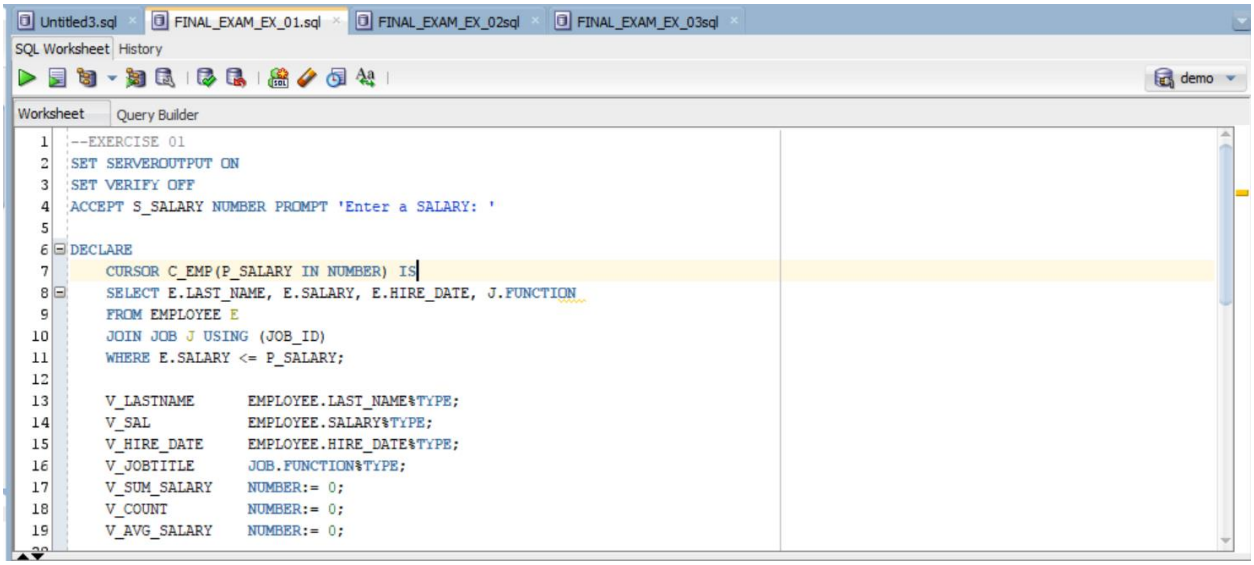
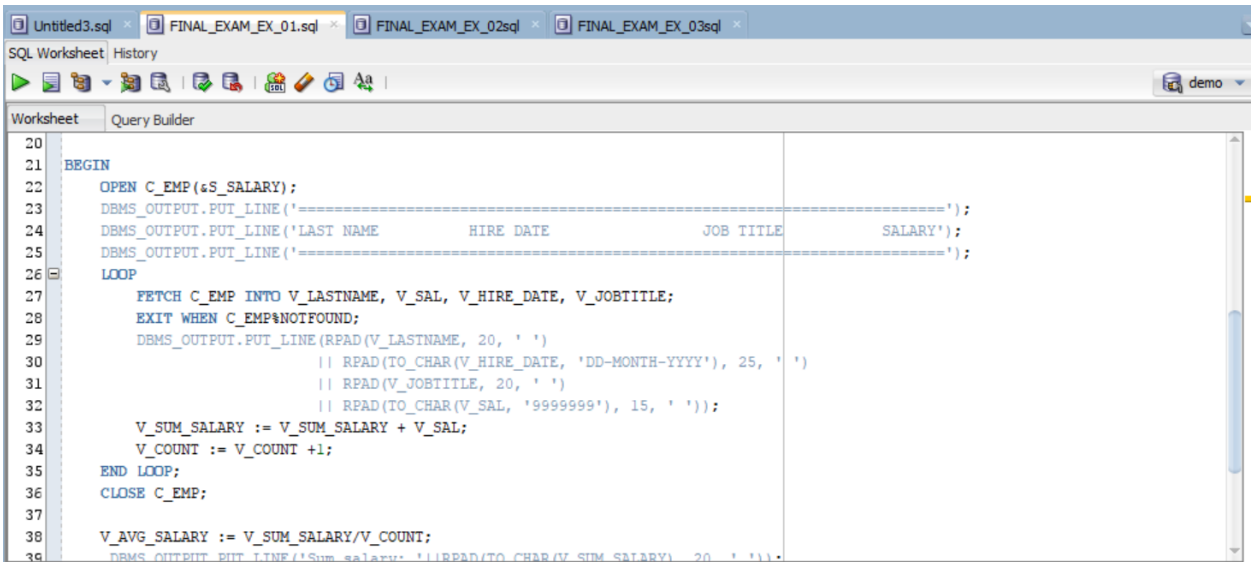
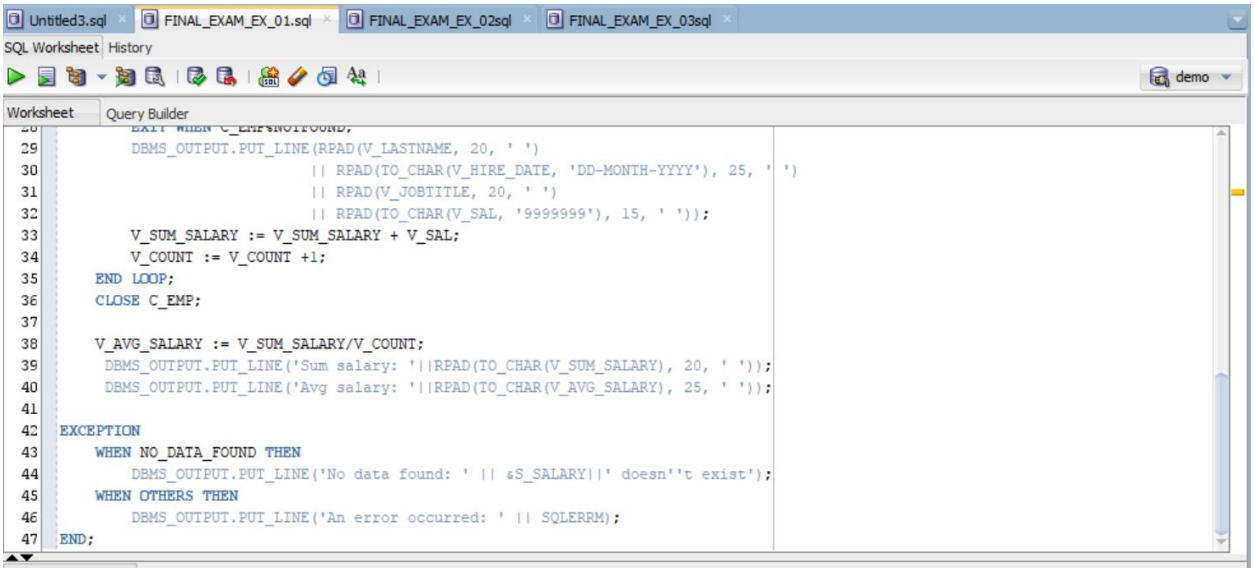
EXERCISE 01



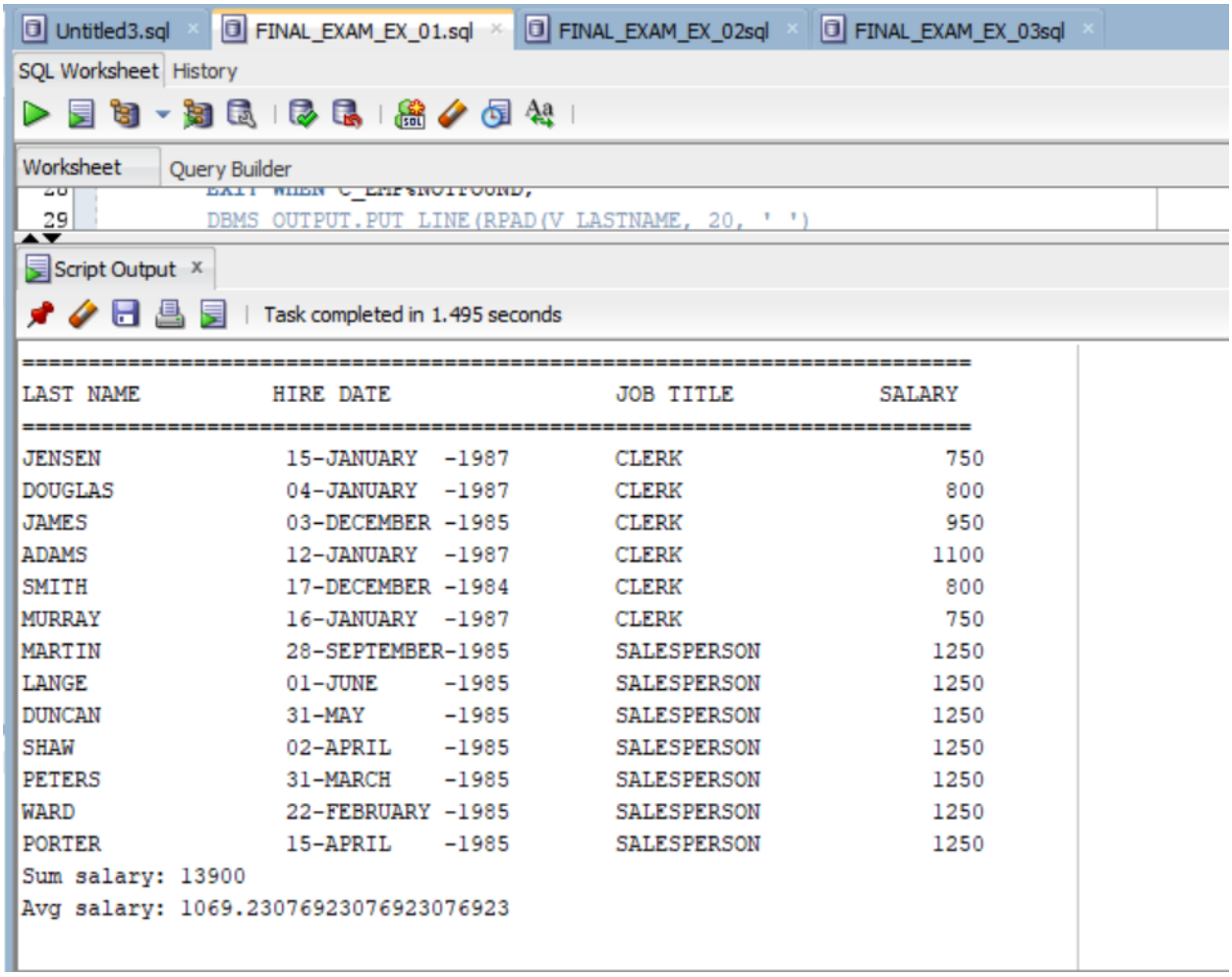
```
--EXERCISE 01
SET SERVEROUTPUT ON
SET VERIFY OFF
ACCEPT S_SALARY NUMBER PROMPT 'Enter a SALARY: '

DECLARE
    CURSOR C_EMP(P_SALARY IN NUMBER) IS
    SELECT E.LAST_NAME, E.SALARY, E.HIRE_DATE, J.FUNCTION
    FROM EMPLOYEE E
    JOIN JOB J USING (JOB_ID)
    WHERE E.SALARY <= P_SALARY;

    V_LASTNAME      EMPLOYEE.LAST_NAME%TYPE;
    V_SAL           EMPLOYEE.SALARY%TYPE;
    V_HIRE_DATE     EMPLOYEE.HIRE_DATE%TYPE;
    V_JOBTITLE      JOB.FUNCTION%TYPE;
    V_SUM_SALARY    NUMBER:= 0;
    V_COUNT         NUMBER:= 0;
    V_AVG_SALARY    NUMBER:= 0;
```



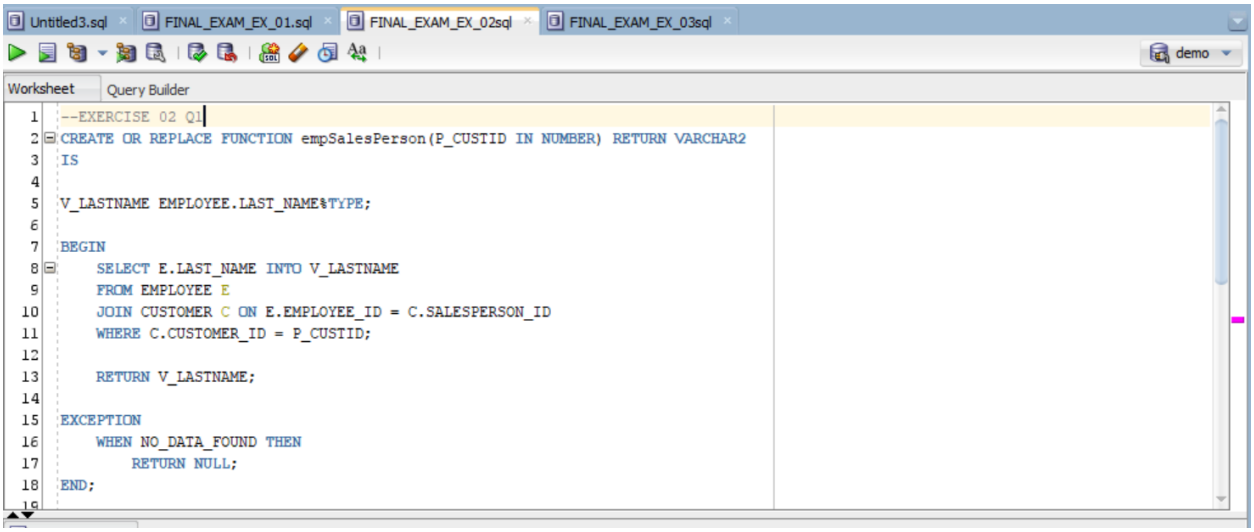
```

BEGIN
    OPEN C_EMP(&S_SALARY);
    DBMS_OUTPUT.PUT_LINE('================================================================================');
    DBMS_OUTPUT.PUT_LINE('LAST NAME          HIRE DATE                 JOB TITLE           SALARY');
    DBMS_OUTPUT.PUT_LINE('================================================================================');
    LOOP
        FETCH C_EMP INTO V_LASTNAME, V_SAL, V_HIRE_DATE, V_JOBTITLE;
        EXIT WHEN C_EMP%NOTFOUND;
        DBMS_OUTPUT.PUT_LINE(RPAD(V_LASTNAME, 20, ' ')
                          || RPAD(TO_CHAR(V_HIRE_DATE, 'DD-MONTH-YYYY'), 25, ' ')
                          || RPAD(V_JOBTITLE, 20, ' ')
                          || RPAD(TO_CHAR(V_SAL, '9999999'), 15, ' '));
        V_SUM_SALARY := V_SUM_SALARY + V_SAL;
        V_COUNT := V_COUNT +1;
    END LOOP;
    CLOSE C_EMP;

    V_AVG_SALARY := V_SUM_SALARY/V_COUNT;
```

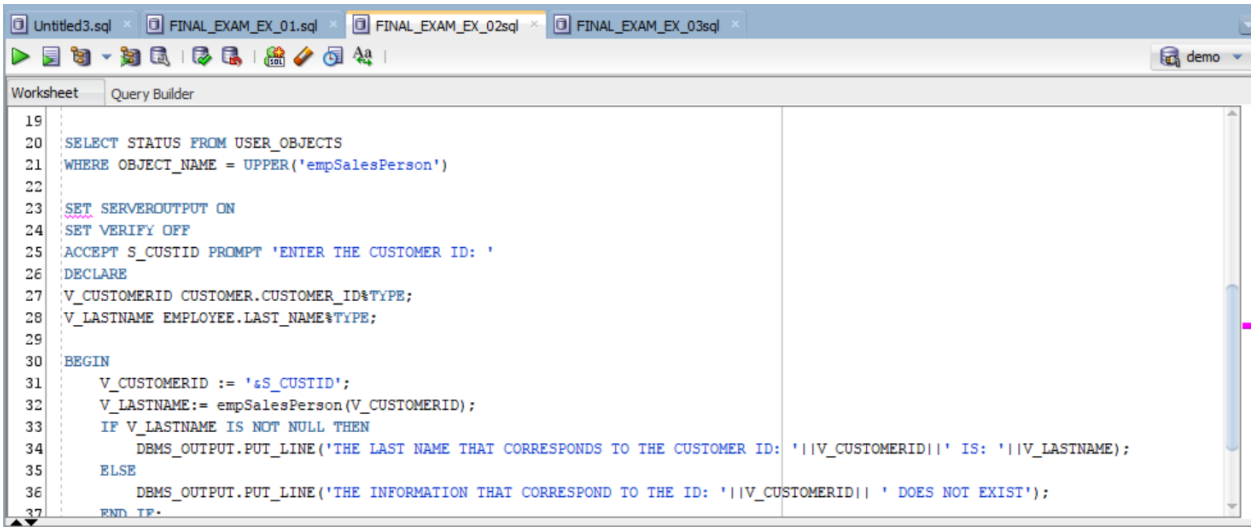

Untitled3.sql
FINAL_EXAM_EX_01.sql
FINAL_EXAM_EX_02sql
FINAL_EXAM_EX_03sql
SQL Worksheet
History
demo
Worksheet
Query Builder
EXIT WHEN C_EMP%NOTFOUND;
DBMS_OUTPUT.PUT_LINE(RPAD(V_LASTNAME, 20, ' ')
|| RPAD(TO_CHAR(V_HIRE_DATE, 'DD-MONTH-YYYY'), 25, ' ')
|| RPAD(V_JOBTITLE, 20, ' ')
|| RPAD(TO_CHAR(V_SAL, '9999999'), 15, ' '));
V_SUM_SALARY := V_SUM_SALARY + V_SAL;
V_COUNT := V_COUNT +1;
END LOOP;
CLOSE C_EMP;
V_AVG_SALARY := V_SUM_SALARY/V_COUNT;
DBMS_OUTPUT.PUT_LINE('Sum salary: '||RPAD(TO_CHAR(V_SUM_SALARY), 20, ' '));
DBMS_OUTPUT.PUT_LINE('Avg salary: '||RPAD(TO_CHAR(V_AVG_SALARY), 25, ' '));
EXCEPTION
WHEN NO_DATA_FOUND THEN
DBMS_OUTPUT.PUT_LINE('No data found: ' || &S_SALARY||' doesn''t exist');
WHEN OTHERS THEN
DBMS_OUTPUT.PUT_LINE('An error occurred: ' || SQLERRM);
END;

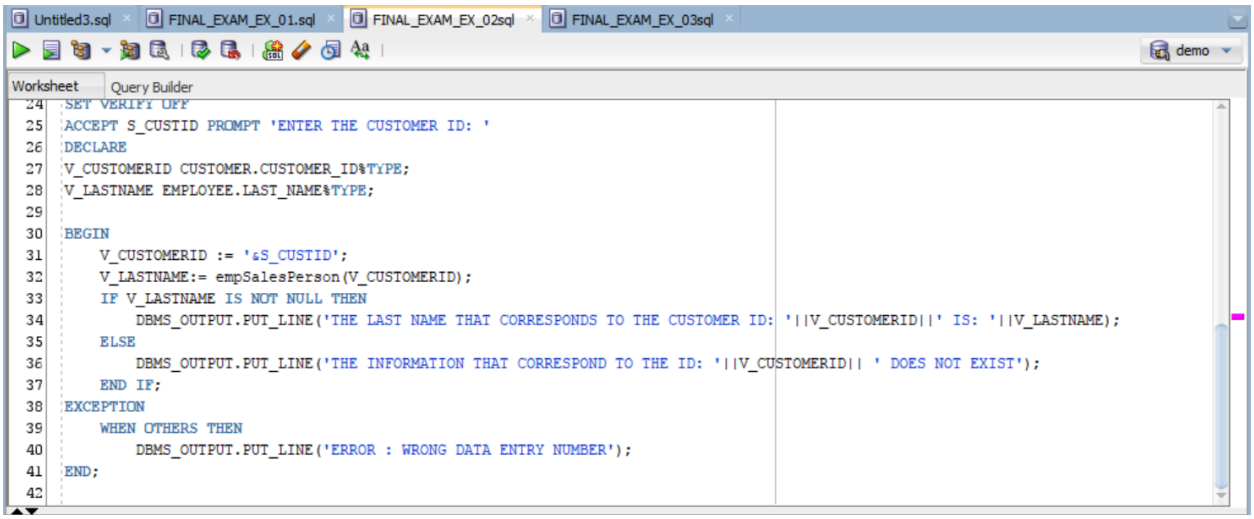
RESULT EX1



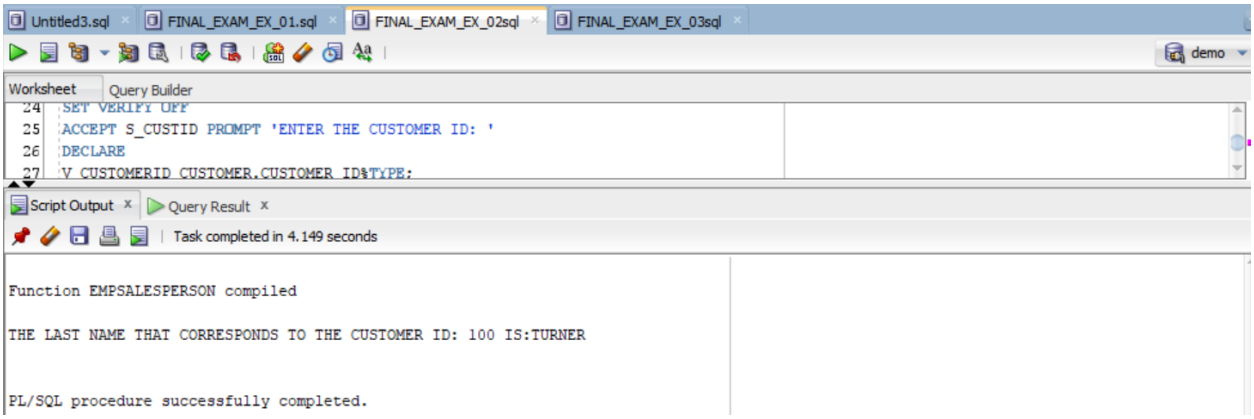
EXERCISE 2 Q1



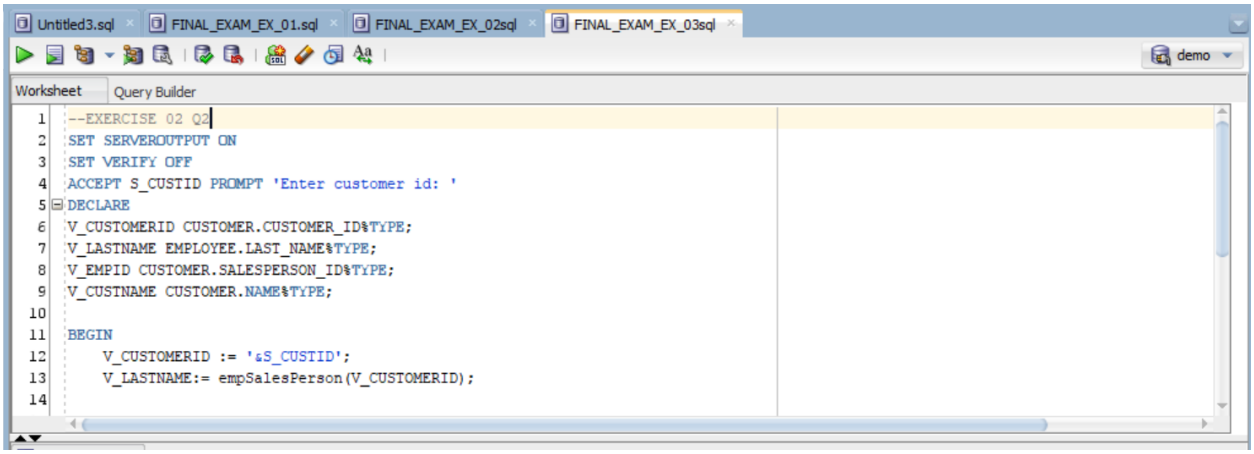




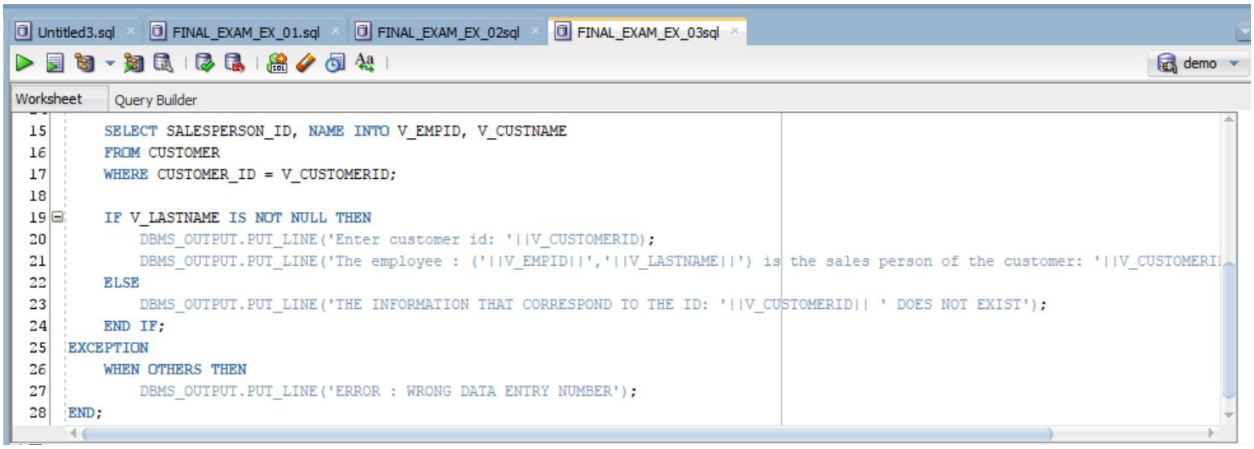
RESULT EX 02 Q1



EXERCISE 2 Q2

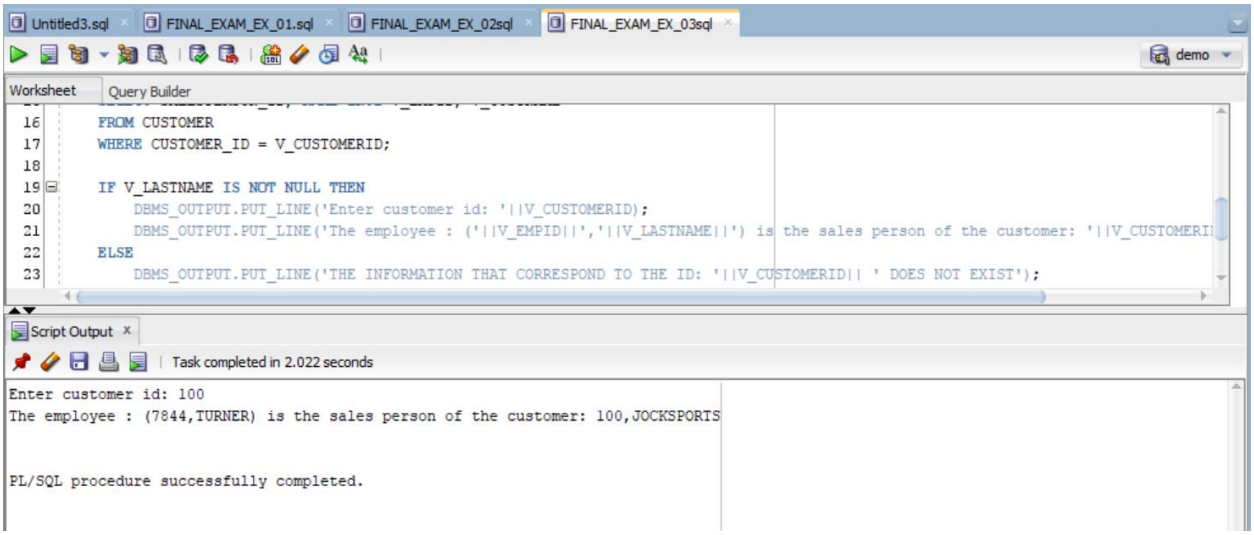


```
--EXERCISE 02 Q2
SET SERVEROUTPUT ON
SET VERIFY OFF
ACCEPT S_CUSTID PROMPT 'Enter customer id: '
DECLARE
V_CUSTOMERID CUSTOMER.CUSTOMER_ID%TYPE;
V_LASTNAME EMPLOYEE.LAST_NAME%TYPE;
V_EMPID CUSTOMER.SALESPERSON_ID%TYPE;
V_CUSTNAME CUSTOMER.NAME%TYPE;

BEGIN
    V_CUSTOMERID := '&S_CUSTID';
    V_LASTNAME:= empSalesPerson(V_CUSTOMERID);
```



```
    SELECT SALESPERSON_ID, NAME INTO V_EMPID, V_CUSTNAME
    FROM CUSTOMER
    WHERE CUSTOMER_ID = V_CUSTOMERID;

    IF V_LASTNAME IS NOT NULL THEN
        DBMS_OUTPUT.PUT_LINE('Enter customer id: '||V_CUSTOMERID);
        DBMS_OUTPUT.PUT_LINE('The employee : ('||V_EMPID||','||V_LASTNAME||') is the sales person of the customer: '||V_CUSTOMERI
    ELSE
        DBMS_OUTPUT.PUT_LINE('THE INFORMATION THAT CORRESPOND TO THE ID: '||V_CUSTOMERID|| ' DOES NOT EXIST');
    END IF;
EXCEPTION
    WHEN OTHERS THEN
        DBMS_OUTPUT.PUT_LINE('ERROR : WRONG DATA ENTRY NUMBER');
END;
```

EXERCISE 02 Q2 RESULT


Untitled3.sql
FINAL_EXAM_EX_01.sql
FINAL_EXAM_EX_02sql
FINAL_EXAM_EX_03sql
demo
Worksheet
Query Builder
16 FROM CUSTOMER
17 WHERE CUSTOMER_ID = V_CUSTOMERID;
18
19 IF V_LASTNAME IS NOT NULL THEN
20 DBMS_OUTPUT.PUT_LINE('Enter customer id: '||V_CUSTOMERID);
21 DBMS_OUTPUT.PUT_LINE('The employee : ('||V_EMPID||','||V_LASTNAME||') is the sales person of the customer: '||V_CUSTOMERI
22 ELSE
23 DBMS_OUTPUT.PUT_LINE('THE INFORMATION THAT CORRESPOND TO THE ID: '||V_CUSTOMERID|| ' DOES NOT EXIST');
Script Output
Task completed in 2.022 seconds
Enter customer id: 100
The employee : (7844,TURNER) is the sales person of the customer: 100,JOCKSPORTS
PL/SQL procedure successfully completed.