Web Test 2 Memo, S1 2022

Subject Code	DSO23BT
Subject Name	Development Software 2B
Examiners	Mr LN Makaula
Moderator	Mr Mathi
Marks	43
Time	60 Minutes

Total Pages(Including this one) :   3

INSTRUCTIONS ON HOW TO WRITE THE TEST ON ELECTRONIC CAMPUS (EC):

1.   Create a folder on **D:\ Drive** and rename the folder your **student number**.
2.   Open a text editor (notepad / notepad ++ is recommended) or MS Word and save the text file in your student number folder. Note: All Questions must be answered on EC.
3.   Open the **browser**.
4.   Type http://ec.tut.ac.za in the address field of the browser and press enter.
5.   Click **Login.**
6.   Type in student number for user name and if you are using EC for the first time you must use your student number as your password.
7.   Alternatively, you must enter your password. (Tut4life Credentials)
8.   Click **Login button**.
9.   Click [**Continue**]
10.   Select [**Student**]
11.   Select [**Tests**]
12.   Select [**Webtest 4**]
13.   Type or Select **DSO23BT** into the first text field.
14.   Type or Select **20221** into the second text field.
15.   Type or Select **W** into the third text field (The "**C**" must be a capital letter).
16.   Click "**Next**"
17.   Click on the "**Write**" button
18.   Click on "**[Start]**" and you will be in the test to submit your answers
19.   Click on **[Section]** on the test to submit each Questions, and click [Go] to submit your answer- Copy your answer and paste it in the space provided
20.   Click **[Test]** to move to the next or previous Questions
21.   Under each question click edit to update your answer
22.   Using **Thandi's Guest House** database

Question 1 [13]

Write a PL/SQL Block that will prompt a user to input their id number. This will display the guest details and the total number of booking they have made at Thandi's Guest House. If you enter a id number that is not valid (id number does not exist in the guest house database). Display an appropriate message.

Your output should resemble the one below

> Enter value for p_idno: 7207316737001
>
> Guest VAN DER MERWE (7207316737001) has cancelled 3 bookings
>
> PL/SQL procedure successfully completed.
>
> Enter value for p_idno: 6708012443567
>
> Guest KHOSA (6708012443567) has cancelled 0 bookings
>
> PL/SQL procedure successfully completed.

```
DECLARE
v_idno guest.idno%TYPE;
v_surname guest.surname%TYPE;            ✓✓

v_count NUMBER(2);
p_idno guest.idno%TYPE;
BEGIN
SELECT idno,surname, count(canceldate) ✓

INTO v_idno,v_surname,v_count ✓

from guest g, booking b✓✓
where g.gno = b.gno ✓
and idno = &p_idno ✓
group by idno,surname; ✓

        DBMS_OUTPUT.PUT_LINE('Guest '||v_surname ||' ('||v_idno||')'|| ' has canceled
'||v_count|| ' bookings'  ); ✓
EXCEPTION ✓
        WHEN NO_DATA_FOUND THEN ✓
                DBMS_OUTPUT.PUT_LINE('Guest '||v_surname ||' ('||v_idno||')'||'has no
cancelled bookings'); ✓
END;
/
```

Question 2 [15]

Write a PL/SQL block that will retrieve and display all the bookings that where made between date 12-JUL-15 and date 30-JUL-15 using for loop cursor(s). Include the total fees for all registered subjects

Your output should resemble the one below

```
--------------------------------------------
Bookings made by DLAMINI ZUMA between 12-JUL-15 and 30-JUL-15
--------------------------------------------
1 booking was made
--------------------------------------------
Bookings made by MABUSA between 12-JUL-15 and 30-JUL-15
--------------------------------------------
2 booking was made
```

```sql
DECLARE
v_staff_no staff.staffnr%TYPE;
v_count booking.bookingNO%TYPE;
CURSOR staff_cursor IS ✓
        SELECT * FROM staff
        ORDER BY staffnr;

CURSOR bookings_cursor IS ✓
        SELECT   b.staffnr, surname, count(b.bookingNO)  as n
        FROM booking b, staff e ✓
        WHERE b.staffnr = e.staffnr        ✓
        AND b.staffnr = v_staff_no
        AND bookingdate between to_date('12-JUL-15','dd-mon-yy') and to_date('30-JUL-15','dd-mon-yy') ✓
        group by    b.staffnr, surname ✓
        order by surname;

BEGIN
FOR staff_rec in staff_cursor LOOP ✓
v_staff_no := staff_rec.staffnr; ✓

        FOR bookings_rec in bookings_cursor LOOP ✓
        DBMS_OUTPUT.PUT_LINE('--------------------------------------------');
        DBMS_OUTPUT.PUT_LINE('Bookings made by '||staff_rec.surname||' between 12-JUL-15 and 30-JUL-15'); ✓
        DBMS_OUTPUT.PUT_LINE('--------------------------------------------');
        v_count := bookings_rec.n; ✓
        if        v_count > 0 then ✓
                DBMS_OUTPUT.PUT_LINE(bookings_rec.n||' booking was made'); ✓
                end if;
        END LOOP; ✓

END LOOP; ✓
END;
```

/

QUESTION 3
           [15]

Create a PL/SQL program that will retrieve card information as displayed below, for a bank of choice entered by the user. Use Non predefined exception to handle an error fo many rows (-1422), self-defined exception for no data error and predefined for other errors.

Output:

Enter value for p_bank: discovery
9254444491434411 belongs to T Khanyago using DISCOVERY-DISCOVERY

Enter value for p_bank: fnb
fnb returns multiple record

PL/SQL procedure successfully completed.

Enter value for p_bank: jog
jog doesnt exist

PL/SQL procedure successfully completed.

DECLARE

v_cardno CHAR(16);
v_nameOnCard VARCHAR2(18);
v_bank creditCard.bank%TYPE;
v_ccname VARCHAR2(16);
vp_bank VARCHAR2(16) := '&p_bank'; ✓
v_cnt   **number(4);**

 e_no_data_found EXCEPTION; ✓

 e_more_rows EXCEPTION;
 PRAGMA EXCEPTION_INIT(e_more_rows,-01422); ✓

BEGIN

SELECT COUNT(*)✓
INTO v_cnt
FROM   CREDITCARD cc,CREDCARDTYPE cct
WHERE cc.cctype = cct.cctype
AND bank = UPPER(vp_bank); ✓

```
IF v_cnt < 1 THEN✓
  RAISE e_no_data_found;
✓
END IF;



SELECT cardno,INITCAP(nameOnCard) CARD_NAME,bank,ccname CREDIT_CARD_TYPE
INTO v_cardno,v_nameOnCard,v_bank,v_ccname
FROM   CREDITCARD cc,CREDCARDTYPE cct
WHERE cc.cctype = cct.cctype
AND bank = UPPER(vp_bank); ✓

DBMS_OUTPUT.PUT_LINE(v_cardno||' belongs to '||v_nameOnCard||' using '||v_bank||'-
'||v_ccname); ✓


EXCEPTION

WHEN e_no_data_found THEN✓

DBMS_OUTPUT.PUT_LINE(vp_bank||' doesnt exist'); ✓

WHEN e_more_rows THEN✓

DBMS_OUTPUT.PUT_LINE(vp_bank||' returns multiple record'); ✓

WHEN OTHERS THEN✓
DBMS_OUTPUT.PUT_LINE('INVALID ENTRY!!!!'); ✓


END;
/
```