Tshwane University of Technology
We empower people

Web Test, S2 2021 memo

Subject Code   : DSO23BT

Subject Name : Development Software 2B

Examiners   : Mr Mathi

Moderator   : Mr Phiri

Marks   : 47   Time   : 60 Minutes

Total Pages(Including this one) :   4

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 **20222** into the second text field.
15.   Type or Select **A** into the third text field (The "**A**" 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 [12]

1 Write a PL/SQL Program to generate sequence of numbers is from 1…….. 10 excluding 5 and 8.

Example output:

1
2
3
4
6
7
9
10
11
The sum is: 66

Set Serveroutput on ✔

```
DECLARE
A                          number(2):=0; ✔
Total                      number(3):=0; ✔
BEGIN
Loop
EXIT WHEN A>10; ✔✔
A:=A+1; ✔
Total:=Total+A; ✔
IF A NOT IN (5,8) THEN✔
DBMS_OUTPUT.PUT_LINE(A); ✔
END IF; ✔
END LOOP; ✔
DBMS_OUTPUT.PUT_LINE('The sum is: '||Total); ✔
END;
/
```

QUESTION 2 [17]

Create a PL/SQL program that will retrieve card information as displayed below, for all card numbers that begin with 93 and using FNB.

Output:

9352444181888114 belongs to Tf Maila using FNB-AMERICAN EXPRESS

DECLARE

v_cardno CHAR(16); ✓
v_nameOnCard VARCHAR2(18); ✓
v_bank creditCard.bank%TYPE; ✓
v_ccname VARCHAR2(16); ✓

BEGIN

SELECT cardno,INITCAP(nameOnCard) ✓CARD_NAME1/2,bank1/2,ccname CREDIT_CARD_TYPE1/2
INTO v_cardno,v_nameOnCard,v_bank,v_ccname✓ ✓
FROM   CREDITCARD cc,CREDCARDTYPE cct ✓ ✓
WHERE cc.cctype = cct.cctype✓
AND SUBSTR(cardno,1,2) ✓1/2 = 93✓
AND bank = 'FNB'; ✓

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

END;
/

QUESTION 3 [18]

Write a PL/SQL block that retrieves staff details along with the total number of receipts greater 16 since appointment date.

Example output:

MAHLANGU contacts are (071) (3654) (532) has being hired since 1st January 2014 and has issued 17 receipts since hired.

```
DECLARE

v_staff VARCHAR2(50); ✓
v_telno VARCHAR2(10); ✓
v_dateappointed DATE; ✓
v_total_recipts NUMBER(8); ✓

BEGIN


SELECT initials||' '||surname,telno,dateappointed, COUNT(t.staffnr) ✓
INTO v_staff,v_telno,v_dateappointed,v_total_recipts ✓✓
FROM staff s, receipt t✓
WHERE s.staffnr = t.staffnr✓
GROUP BY  initials||' '||surname,telno,dateappointed✓✓
HAVING COUNT(t.staffnr)>16; ✓✓

DBMS_OUTPUT.PUT_LINE(v_staff||' contacts are ('||SUBSTR(v_telno,1,3) ✓||')
('||SUBSTR(v_telno,4,4) ✓||') ('||SUBSTR(v_telno,8,3) ✓||') has being hired since
'||TO_CHAR(v_dateappointed,'fmddth Month YYYY') ✓||' and has issued '||v_total_recipts||'
receipts since hired.'); ✓

END;
/
```