CIS 229

Professor: Bob Desilets

Date 9/30/2018

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**Hands-On Assignments Part I**

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| **Assignment 2-1: Using Scalar Variables** |
| DECLARE  lv\_test\_date DATE := '10-December-2012';  lv\_test\_num NUMBER(3) := 10;  lv\_test\_txt VARCHAR(10) := 'Mulumba';  BEGIN  DBMS\_OUTPUT.PUT\_LINE(lv\_test\_date);  DBMS\_OUTPUT.PUT\_LINE(lv\_test\_num);  DBMS\_OUTPUT.PUT\_LINE(lv\_test\_txt);  END; |
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| **Assignment 2-2: Creating a Flowchart** |
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| **Assignment 2-3: Using IF Statements** |
| DECLARE  lv\_total\_Purchase NUMBER(6,2) := 100;  lv\_Purchase\_Rating VARCHAR(30);  BEGIN  IF lv\_total\_Purchase > 200 THEN  lv\_Purchase\_Rating := 'high';  ELSIF lv\_total\_Purchase > 100 THEN  lv\_Purchase\_Rating := 'Middle';  ELSE  lv\_Purchase\_Rating := 'Low';  END IF;  DBMS\_OUTPUT.PUT\_LINE('The customer rate is:' || lv\_Purchase\_Rating);  END; |
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| **Assignment 2-4: Using CASE Statements** |
| DECLARE  lv\_total CHAR(1);  lv\_total\_purchase NUMBER(6,2) := 201;  lv\_purchase\_rating\_txt VARCHAR(30);  BEGIN  IF lv\_total\_purchase > 200 THEN  lv\_total := 'A';  ELSIF lv\_total\_purchase > 100 THEN  lv\_total := 'B';  ELSE lv\_total := 'C';  END IF;  CASE lv\_total  WHEN 'A' THEN lv\_purchase\_rating\_txt := 'High';  WHEN 'B' THEN lv\_purchase\_rating\_txt := 'Middle';  ELSE lv\_purchase\_rating\_txt := 'Low';  END CASE;  DBMS\_OUTPUT.PUT\_LINE('The customer purchase rating is: ' || lv\_purchase\_rating\_txt);  END; |
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| **Assignment 2-5: Using a Boolean Variable** |
| DECLARE  lv\_account\_balance NUMBER(6,2);  lv\_payemnt\_received NUMBER(6,2);  lv\_account\_status\_bln BOOLEAN;  lv\_account\_status\_text VARCHAR2(30);  lv\_status\_cal NUMBER(6,2);  BEGIN  lv\_payemnt\_received := 67;  lv\_account\_balance := 200;    lv\_status\_cal := lv\_account\_balance - lv\_payemnt\_received;  IF (lv\_account\_balance -lv\_payemnt\_received) = 0 THEN  lv\_account\_status\_bln := TRUE;  lv\_account\_status\_text := 'The payement was received ';  DBMS\_OUTPUT.PUT\_LINE(lv\_account\_status\_text);  ELSE  lv\_account\_status\_bln := FALSE;  lv\_account\_status\_text := 'The payement is incomplet';  DBMS\_OUTPUT.PUT\_LINE(lv\_account\_status\_text);  DBMS\_OUTPUT.PUT\_LINE('Amount owed is: ' || lv\_status\_cal);  END IF;  END; |
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| **Assignment 2-6: Using Looping Statements** |
| DECLARE  TYPE NAMESARRAY IS VARRAY(5) OF VARCHAR2(10);  TYPE price IS VARRAY(5) OF NUMBER(3);  names NAMESARRAY;  marks price;  total NUMBER(3);  tot NUMBER(3) := 178;  BEGIN  names := namesarray('Soap', 'Water', 'Book', 'Rice', 'Juice');  marks:= price(26, 97, 34, 14, 7);  total := names.count;  dbms\_output.put\_line('Total '|| total || ' Item(s)');  FOR i in 1 .. total LOOP  dbms\_output.put\_line('Item: ' || names(i) || '.............Price: $' || marks(i));  END LOOP;  dbms\_output.put\_line('Total purchased is: ' ||'$'|| tot);    END; |
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| **Assignment 2-7: Creating a Flowchart** |
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| **Assignment 2-8: Using IF Statements** |
| DECLARE  lv\_quantity NUMBER(6) := 13;  lv\_member CHAR(1) :='N';  lv\_cost NUMBER(6,2);  BEGIN  IF lv\_member = 'Y' THEN  IF lv\_quantity <= 3 THEN lv\_cost:= 3.00;  ELSIF lv\_quantity <= 6 THEN lv\_cost := 5.00;  ELSIF lv\_quantity <= 10 THEN lv\_cost := 7.00;  ELSE lv\_cost := 9.00;  END IF;  END IF;  IF lv\_member = 'N' THEN  IF lv\_quantity <= 3 THEN lv\_cost := 5.00;  ELSIF lv\_quantity <= 6 THEN lv\_cost := 7.50;  ELSIF lv\_quantity <= 10 THEN lv\_cost := 10.00;  ELSE lv\_cost := 12.00;  END IF;  END IF;  DBMS\_OUTPUT.PUT\_LINE('The customer shipping is: ' ||'$'|| lv\_cost);  END; |
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