CIS 229

Professor: Bob Desilets

Date 10/31/2018

Chapter 6

Cedric L Mulumba

**Hands-On Assignments Part I**

|  |
| --- |
| **Assignment 6-1: Formatting Numbers as Currency** |
| CREATE OR REPLACE FUNCTION dollar\_fmt\_sf  (p\_num NUMBER)  RETURN VARCHAR2  IS  lv\_amt\_txt VARCHAR2(20);  BEGIN  lv\_amt\_txt := TO\_CHAR(p\_num,'$99,999.99');  RETURN lv\_amt\_txt;  END; |
|  |
| DECLARE  lv\_amt\_num NUMBER(8,2) := 9999.55;  BEGIN  DBMS\_OUTPUT.PUT\_LINE(dollar\_fmt\_sf(lv\_amt\_num));  END; |
|  |
| SELECT dollar\_fmt\_sf(shipping), dollar\_fmt\_sf(total)  FROM bb\_basket  WHERE idBasket = 3; |
|  |
| **Assignment 6-2: Calculating a Shopper’s Total Spending** |
|  |
|  |
| **Assignment 6-3: Calculating a Shopper’s Total Number of Orders** |
| CREATE OR REPLACE FUNCTION num\_purch\_sf  (p\_shopper\_ID IN number)  RETURN number  IS  lv\_count NUMBER(10);  BEGIN  SELECT COUNT(IDBASKET)  INTO lv\_count  FROM bb\_basket  WHERE orderplaced = 1;  RETURN (lv\_count);  END; |
|  |
| SELECT NUM\_PURCH\_SF(23)  FROM bb\_shopper  WHERE idshopper=23; |
|  |
| **Assignment 6-4: Identifying the Weekday for an Order Date** |
| CREATE OR REPLACE FUNCTION day\_ord\_sf  (p\_order\_date IN DATE)  RETURN VARCHAR2  IS  lv\_day\_week VARCHAR2(9);  BEGIN  SELECT TO\_CHAR(p\_order\_date) , 'DAY', Count (\*)  INTO lv\_day\_week  FROM BB\_Basket;  RETURN lv\_day\_week;  END; |
|  |
| **Assignment 6-5: Calculating Days Between Ordering and Shipping** |
| CREATE OR REPLACE FUNCTION ord\_ship\_sf  (p\_id NUMBER)  RETURN VARCHAR2  IS  lv\_ship\_txt VARCHAR2(5);  lv\_ord\_dat DATE;  lv\_ship\_dat DATE;  lv\_days\_num NUMBER(2);  BEGIN  SELECT b.dtordered, bs.dtstage  INTO lv\_ord\_dat, lv\_ship\_dat  FROM BB\_BASKET b, BB\_BASKETSTATUS bs  WHERE b.idBasket = bs.idBasket  AND bs.idBAsket= p\_id  AND bs.idstage= 5;  lv\_days\_num:= lv\_ship\_dat - lv\_ord\_dat;  IF lv\_days\_num < 1 THEN  lv\_ship\_txt := 'CHECK';  ELSIF lv\_ship\_dat = NULL THEN  lv\_ship\_txt := 'Not Shipped';  ELSE  lv\_ship\_txt := 'OK';  END IF;  RETURN lv\_ship\_txt;  END; |
|  |
|  |
|  |
|  |
| **Assignment 6-6: Adding Descriptions for Order Status Codes** |
| CREATE OR REPLACE FUNCTION status\_desc\_sf  (p\_id IN BB\_BasketStatus.idstage%TYPE)  RETURN VARCHAR2  IS  BEGIN  IF p\_id = 1 THEN  RETURN 'Order Submitted';  ELSIF p\_id = 2 THEN  RETURN 'Accepted, sent to shipping';  ELSIF p\_id = 3 THEN  RETURN 'Back-ordered';  ELSIF p\_id = 4 THEN  RETURN 'Canceled';  ELSIF p\_id = 5 THEN  RETURN 'Accepted, sent to shipped';  ELSE  RETURN 'Unknown';  END IF;  END; |
|  |
|  |
| **Assignment 6-7: Calculating an Order’s Tax Amount** |
| CREATE OR REPLACE FUNCTION tax\_calc\_sf  (p\_id NUMBER)  RETURN NUMBER  IS  lv\_basktax\_txt bb\_basket.subtotal%TYPE;  lv\_shpstate\_txt bb\_basket.shipstate%TYPE;  BEGIN  SELECT subtotal, shipstate  INTO lv\_basktax\_txt, lv\_shpstate\_txt  FROM bb\_basket  WHERE idbasket = p\_id;  IF lv\_shpstate\_txt = 'VA' THEN  RETURN lv\_basktax\_txt \* .045;  ELSIF lv\_shpstate\_txt = 'NC' THEN  RETURN lv\_basktax\_txt \* .03;  ELSIF lv\_shpstate\_txt = 'SC' THEN  RETURN lv\_basktax\_txt \* .06;  ELSE  RETURN lv\_basktax\_txt \* .00;  END IF;    END; |
|  |
|  |
|  |
|  |
|  |
| **Assignment 6-8: Identifying Sale Products** |
| CREATE OR REPLACE FUNCTION ck\_sale\_sf  (p\_id IN NUMBER,  p\_date IN DATE)  RETURN VARCHAR2  IS  lv\_start\_dat DATE;  lv\_end\_dat DATE;  lv\_msg\_txt VARCHAR2(15);  BEGIN  SELECT salestart, saleend  INTO lv\_start\_dat, lv\_end\_dat  FROM bb\_product  WHERE idProduct = p\_id;  IF p\_date BETWEEN lv\_start\_dat AND lv\_end\_dat THEN  lv\_msg\_txt :='Great Deal!';  END IF;  RETURN lv\_msg\_txt;  END; |
|  |
| DECLARE  lv\_msg\_txt VARCHAR2(15);  BEGIN  lv\_msg\_txt := ck\_sale\_sf(6,'10-JUNE-12');  DBMS\_OUTPUT.PUT\_LINE(lv\_msg\_txt);  END; |
|  |
| DECLARE  lv\_msg\_txt VARCHAR2(15);  BEGIN  lv\_msg\_txt := ck\_sale\_sf(6,'19-JUNE-12');  DBMS\_OUTPUT.PUT\_LINE(lv\_msg\_txt);  END; |
|  |