5.5

Create a procedure named STATUS\_SHIP\_SP that allows a company employee in the Shipping Department to update the status of an order to add shipping information. The BB\_BASKETSTATUS table maintains a list of events for each order so that a shopper can see the current status, date, and comments as each stage of the order process is completed. The IDSTAGE column of the BB\_BASKETSTATUS table identifies each stage and an IDSTAGE of 3 indicates the order has been shipped. The procedure should allow the addition of a row indicating an IDSTAGE of 3, date shipped, tracking number, and shipper. The sequence BB\_STATUS\_ SEQ is used to provide a value for the primary key column. Test the procedure with the following information:

Basket #=3

Date shipped = 20-FEB-07

Shipper = UPS

Tracking # = ZW2384YXK4957

|  |
| --- |
| CREATE OR REPLACE PROCEDURE STATUS\_SHIP\_SP (  p\_basket\_number IN NUMBER,  p\_date\_shipped IN DATE,  p\_shipper IN VARCHAR2,  p\_tracking\_number IN VARCHAR2  ) IS  BEGIN  -- Insert a new row into the BB\_BASKETSTATUS table  INSERT INTO BB\_BASKETSTATUS (  IDSTATUS, -- Primary key  IDBASKET, -- Foreign key to BB\_BASKET (assumed column)  IDSTAGE, -- The stage ID (3 for shipped)  DTSTAGE, -- Date the item was shipped  SHIPPER, -- The shipping company  SHIPPINGNUM -- Tracking number  )  VALUES (  BB\_STATUS\_SEQ.NEXTVAL, -- Generate new primary key  p\_basket\_number, -- Basket ID passed as parameter  3, -- IDSTAGE for shipped (3)  p\_date\_shipped, -- Date shipped passed as parameter  p\_shipper, -- Shipper name passed as parameter  p\_tracking\_number -- Tracking number passed as parameter  );  -- If autocommit is off, commit the transaction  COMMIT;  -- Optionally, log success to a more structured log table (this can be replaced)  DBMS\_OUTPUT.PUT\_LINE('Basket ' || p\_basket\_number || ' has been updated to "Shipped" status.');  EXCEPTION  WHEN OTHERS THEN  -- Rollback any changes if an error occurs  ROLLBACK;  -- Log error to DBMS\_OUTPUT (can be extended to a log table or other mechanism)  DBMS\_OUTPUT.PUT\_LINE('Error occurred while updating basket ' || p\_basket\_number || ': ' || SQLERRM);  -- Optionally, re-raise the exception or handle it as needed (e.g., logging in an error table)  -- RAISE;  END STATUS\_SHIP\_SP;  /  -- Example execution of the procedure:  BEGIN  STATUS\_SHIP\_SP(  p\_basket\_number => 3,  p\_date\_shipped => TO\_DATE('20-FEB-07', 'DD-MON-YY'),  p\_shipper => 'UPS',  p\_tracking\_number => 'ZW2384YXK4957'  );  END;  / |

5.6

Create a procedure that returns the most recent order status information for a particular basket. This procedure should determine the most recent stage entry from the BB\_BASKETSTATUS table and return the data. An IF or CASE clause needs to be used to return the stage description rather than the IDSTAGE number, which means little to the shopper. The IDSTAGE column of the BB\_BASKETSTATUS table identifies each stage as follows:

* ﻿﻿1 = Submitted and received
* ﻿﻿2 = Confirmed, processed, sent to shipping
* ﻿﻿3 = Shipped
* ﻿﻿4 = Cancelled
* ﻿﻿5 = Backordered

The procedure needs to accept a basket id number and return the most recent status description and the date that status was recorded. If no status is available for the basket id queried, return a message stating that no status is available. Use a VARCHAR2 host variable to hold the date value returned. Name the procedure STATUS\_SP. Test the procedure twice using the basket id of 4 and then 6.

5.7

The company wants to offer an incentive of free shipping to those customers who have not returned since a specified date. Create a procedure named PROMO\_SHIP\_SP that determines who these customers are and then updates the BB\_PROMOLIST table accordingly. The procedure uses the following information:

* ﻿﻿﻿Date cutoff = Any customers who have not shopped on the site since this date should be included as incentive participants. Use the basket creation date to reflect shopper activity dates.
* ﻿﻿﻿Month = Three-character month (such as APR) that should be added to the promotion table to indicate which month the free shipping is effective.
* ﻿﻿﻿Year = Four-digit year indicating the year the promotion is effective.
* ﻿﻿﻿PROMO\_FLAG = 1 (representing free shipping).

The BB\_PROMOLIST table also has a USED column, which contains a default value of 'N' and is updated to a 'Y' when the shopper uses the promotion. Test the procedure with a cutoff date of 15-FEB-07. Assign the free shipping for the month of APR and the year 2007.

5.8

As a shopper selects products on the Web site, a procedure is needed to add the newly selected item to the current shopper's basket. Create a procedure named BASKET\_ADD\_SP that accepts a product id, basket id, price, quantity, size code (1 or 2), and form code (3 or 4) and that uses this information to add a new item to the BB\_BASKETITEM table. Note the PRIMARY KEY column of the table is generated by BB\_IDBASKETITEM\_SEQ. Execute the procedure using the following values:

* ﻿﻿Basket id = 14
* ﻿﻿Product id = 8
* ﻿﻿Price = 10.80
* ﻿﻿Quantity = 1
* ﻿﻿Size code = 2

﻿﻿Form code = 4

5.9

On the home page of the Brewbean's Web site, an option is available for existing members to log on with their IDs and passwords. Develop a procedure named MEMBER\_CK\_SP that accepts the ID and password as inputs, checks if it is a valid logon, and returns the member name and cookie value.

The name should be returned as a single text string containing the first and last name.

The head developer asked that the number of parameters should be minimized so that the same parameter is used to accept the password and return the name value. Also, if a valid user name and password are not provided by the user, return the value of INVALID in a parameter named P CHECK. Execute a valid member first using the username "rat55" and password of "kile" Then execute an invalid logon changing the previous user name to "rat." Be sure to set all the host variables to NULL after running the first execution so that they contain no values upon the second execution.