```
REM: Assignment 6 – PL/SQL STORED PROCEDURES & STORED FUNCTIONS
REM: LAKSHMI PRIYA B
REM: 185001083
SET SERVEROUTPUT ON;
SET ECHO ON;
DROP TABLE customer;
DROP TABLE pizza;
DROP TABLE orders:
DROP TABLE order_list;
CREATE TABLE customer(
 cust_id varchar2(5),
 cust name varchar2(10),
 address varchar2(30),
 phone number(10),
CONSTRAINT cust_pk PRIMARY KEY(cust_id)
);
CREATE TABLE pizza(
       pizza id varchar2(5),
       pizza_type varchar2(10),
       unit price number(5),
CONSTRAINT pizza_pk PRIMARY KEY(pizza_id)
);
CREATE TABLE orders(
       order_no varchar2(5),
       cust_id varchar2(5),
       order_date date,
       delv date date,
CONSTRAINT order_pk PRIMARY KEY(order_no)
);
CREATE TABLE order_list(
       order_no varchar2(5),
       pizza_id varchar2(5),
       qty number(5),
CONSTRAINT list_pk PRIMARY KEY(order_no, pizza_id)
);
@d:/Pizza_DB.sql
ALTER TABLE orders
ADD (total_amt NUMBER, discount NUMBER, bill_amt NUMBER);
```

```
SELECT * FROM customer;
SELECT * FROM pizza;
SELECT * FROM orders;
SELECT * FROM order_list;
REM: 1. Write a stored function to display the total number of pizza's
REM: ordered by the given order number.
CREATE OR REPLACE FUNCTION numPizza
(order_num IN order_list.order_no%type)
RETURN NUMBER
IS
totNum NUMBER;
BEGIN
SELECT sum(qty) INTO totNum FROM order list
WHERE order_no=order_num
GROUP BY order_no;
RETURN totNum;
EXCEPTION
 WHEN no_data_found THEN
   dbms_output.put_line('Invalid order number!!');
      RETURN -1;
 WHEN others THEN
      dbms_output.put_line('ERROR');
      RETURN -1;
END;
DECLARE
order_no order_list.order_no%type;
totNum NUMBER;
BEGIN
order_no:='&order_no';
totNum:=numPizza(order_no);
IF totNum!=-1 THEN
 dbms_output.put('*******************************):
 dbms output.put line('********');
 dbms_output.put_line('Total number of pizzas order by '||order_no||
                    'is'||totNum);
 dbms_output.put_line('*********);
END IF;
END;
```

REM: 2. Write a PL / SQL block to calculate the total amount, discount REM: and billable amount (Amount to Be Paid) as given below:

```
REM: For Total Amount> 2000 and
REM: Total Amount <5000: Discount = 5%
REM: For Total Amount > 5000 and Total Amount < 10000: Discount = 10%
REM: For Total Amount> 10000: Discount = 20%
REM: Calculate the Billable Amount (After the Discount) and Update the
REM: same orders table.
REM: Bill Amount = Total - Discount.
CREATE OR REPLACE PROCEDURE calcAmt
cur sys_refcursor;
orderno orders.order no%type;
disc orders.discount%type;
totamt orders.total_amt%type;
BEGIN
UPDATE orders o
SET total_amt=( SELECT SUM(qty*unit_price)
               FROM pizza p, order_list ol
               WHERE o.order_no=ol.order_no AND ol.pizza_id=p.pizza_id);
OPEN cur FOR SELECT order_no, total_amt FROM orders;
LOOP
  FETCH cur INTO orderno, totamt;
  EXIT WHEN cur%notfound;
  IF totamt > 2000 AND totamt <=5000 THEN
    disc:=0.05;
  ELSIF totamt > 5000 AND totamt <=10000 THEN
    disc:=0.1;
  ELSIF totamt > 10000 THEN
    disc:=0.2;
  ELSE
    disc:=0;
  END IF;
  UPDATE orders
       SET total amt=totamt, discount=disc, bill amt=totamt-disc*totamt
       WHERE order no=orderno;
END LOOP;
CLOSE cur;
END;
BEGIN
calcAmt();
END;
SELECT * FROM orders;
```

REM: 3. For the given order number, write a PL / SQL block to the print REM: order shown below: Hint: Use the PL / SQL blocks created in 1 and 2.

```
CREATE OR REPLACE PROCEDURE printOrder
(order_num IN order_list.order_no%type)
cur sys refcursor;
totQty NUMBER;
cname customer.cust_name%type;
phoneNum customer.phone%type;
orderDate DATE;
sno NUMBER;
ptype pizza.pizza_type%type;
qty order_list.qty%type;
price pizza.unit_price%type;
totamt orders.total_amt%type;
disc orders.discount%type;
billamt orderS.bill_amt%type;
BEGIN
totQty:=numPizza(order num);
IF totQty!=-1 THEN
 calcAmt();
 SELECT cust name, order date, phone
 INTO cname, orderDate, phoneNum
 FROM customer, orders
 WHERE customer.cust_id=orders.cust_id AND order_no=order_num;
 dbms output.put('******************************):
 dbms output.put line('********);
 dbms_output.put_line('Order Number: '||rpad(order_num, 15)||
                      'Customer Name: '| | Ipad(cname, 10));
 dbms_output_line('Order Date : '||rpad(orderDate, 15)||
                      'Phone
                                : '||Ipad(phoneNum, 10));
 dbms_output.put('**********
 dbms_output.put_line('*********);
 OPEN cur FOR SELECT pizza_type, qty, unit_price
               FROM order list ol, orders o, pizza p
               WHERE ol.order no=order num AND
                  ol.order_no=o.order_no AND
                  ol.pizza id=p.pizza id;
 SELECT total amt, discount, bill amt
 INTO totamt, disc, billamt
 FROM orders
 WHERE order_no=order_num;
 dbms_output_line(lpad('SNo',5)||lpad('Pizza Type',20)||
                      lpad('Qty',5)||lpad('Price',8)||lpad('Amount',10));
```

```
LOOP
   FETCH cur INTO ptype, qty, price;
   EXIT WHEN cur%notfound;
   dbms_output.put_line(lpad(sno,5)||lpad(ptype,20)||lpad(qty,5)||
                      lpad(price,8)||lpad(qty*price,10));
      sno:=sno+1;
 END LOOP;
 CLOSE cur;
 dbms_output.put('-----');
 dbms_output.put_line('----');
 dbms_output.put_line(rpad(' Total = ',21)|| lpad(' ',10)||lpad(totqty,5)||
                    lpad(' ',8)||lpad(totamt,10));
 dbms_output.put('-----');
 dbms_output.put_line('----');
 dbms_output.put_line(rpad('Total Amount',20)||'Rs. '||totamt);
 dbms_output.put_line('Discount('||TO_CHAR(disc*100)||rpad('%)',10)||
                    'Rs. '||TO_CHAR(disc*totamt));
 dbms_output.put_line('-----');
 dbms_output.put_line(rpad('Amount to be paid',20)||'Rs. '||billamt);
 dbms_output.put_line('-----');
 dbms_output.put_line('Great Offers! Discount upto 25% on DIWALI...');
 dbms_output.put('*******************************);
 dbms_output.put_line('*********');
END IF;
END;
DECLARE
ordernum order_list.order_no%type;
BEGIN
ordernum:='&order_no';
printOrder(ordernum);
END;
REM: *********
REM: LAKSHMI PRIYA B
REM: 185001083
REM: *********
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