SQL> set echo on;

SQL> @D:/ex6.sql

SQL> --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> --UCS1412

SQL> --Database Lab

SQL> -- Computer Science Department

SQL> -- SSN College of Engineering

SQL> --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> -- PIZZA ORDERING DATASET

SQL> -- Version 1.0

SQL> -- February 05, 2015

SQL> --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> --Sources:

SQL> -- This dataset is prepared for the assignment

SQL> -- on DML, PL/SQL blocks in Database Programming.

SQL> -- This is a test dataset - pizza ordered on 28 & 29th Jun 2015.

SQL> -- Do NOT MODIFY the instances.

SQL> --

SQL> --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL>

SQL>

SQL> REm customer(cust\_id, cust\_name, address, phone)

SQL> REM pizza (pizza\_id, pizza\_type, unit\_price)

SQL> REM orders(order\_no, cust\_id, order\_date ,delv\_date, total\_amt)

SQL> REM order\_list(order\_no, pizza\_id, qty)

SQL>

SQL> set serveroutput on;

SQL> REM ------------------------------------------------------------------------------------------

> set echo on;

SQL> drop table order\_list;

Table dropped.

SQL> drop table orders;

Table dropped.

SQL> drop table pizza;

Table dropped.

SQL> drop table customer;

Table dropped.

SQL>

SQL>

SQL> REM customer(cust\_id, cust\_name,address,phone)

SQL>

SQL> create table customer(cust\_id varchar2(4) constraint id\_pk primary key,cust\_name varchar2(15),address varchar2(30),phone number(10));

Table created.

SQL>

SQL> insert into customer values('c001','Hari','32 RING ROAD,ALWARPET',9001200031);

1 row created.

SQL> insert into customer values('c002','Ashok','42 bull ROAD,numgambakkam',9444120003);

1 row created.

SQL> insert into customer values('c003','Raj','12a RING ROAD,ALWARPET',9840112003);

1 row created.

SQL> insert into customer values('c004','Raghu','P.H ROAD,Annanagar',9845712993);

1 row created.

SQL> insert into customer values('c005','Sindhu','100 feet ROAD,vadapalani',9840166677);

1 row created.

SQL> insert into customer values('c006','Brinda','GST ROAD, TAMBARAM', 9876543210);

1 row created.

SQL>

SQL>

SQL>

SQL> REM pizza (pizza\_id, pizza\_type, unit\_price)

SQL>

SQL> create table pizza(pizza\_id varchar2(4) constraint pizzaid\_pk primary key,pizza\_type varchar2(10),unit\_price number(3));

Table created.

SQL>

SQL> insert into pizza values('p001','pan',130);

1 row created.

SQL> insert into pizza values('p002','grilled',230);

1 row created.

SQL> insert into pizza values('p003','italian',200);

1 row created.

SQL> insert into pizza values('p004','spanish',260);

1 row created.

SQL> --insert into pizza values('p005','supremo',250);

SQL>

SQL>

SQL> REM orders(order\_no, cust\_id, order\_date ,delv\_date)

SQL>

SQL>

SQL> create table orders(order\_no varchar2(5) constraint order\_pk primary key,cust\_id varchar2(4) constraint foriegn1 references customer(cust\_id),order\_date date,delv\_date date);

Table created.

SQL>

SQL> insert into orders values('OP100','c001','28-JUN-2015','30-JUN-2015');

1 row created.

SQL> insert into orders values('OP200','c002','28-JUN-2015','30-JUN-2015');

1 row created.

SQL> insert into orders values('OP300','c003','29-JUN-2015','01-JUL-2015');

1 row created.

SQL> insert into orders values('OP400','c004','29-JUN-2015','01-JUL-2015');

1 row created.

SQL> insert into orders values('OP500','c001','29-JUN-2015','01-JUL-2015');

1 row created.

SQL> insert into orders values('OP600','c002','29-JUN-2015','01-JUL-2015');

1 row created.

SQL>

SQL>

SQL>

SQL> REM order\_list(order\_no, pizza\_id, qty)

SQL>

SQL> create table order\_list(order\_no varchar2(5) constraint foriegn2 references orders(order\_no),pizza\_id varchar2(4) constraint foriegn3 references pizza(pizza\_id),qty number(2),constraint prim\_key primary key(order\_no,pizza\_id));

Table created.

SQL>

SQL>

SQL> insert into order\_list values('OP100','p001',3);

1 row created.

SQL> insert into order\_list values('OP100','p002',2);

1 row created.

SQL> insert into order\_list values('OP100','p003',1);

1 row created.

SQL> insert into order\_list values('OP100','p004',5);

1 row created.

SQL>

SQL> insert into order\_list values('OP200','p003',2);

1 row created.

SQL> insert into order\_list values('OP200','p001',6);

1 row created.

SQL> insert into order\_list values('OP200','p004',8);

1 row created.

SQL>

SQL> insert into order\_list values('OP300','p003',3);

1 row created.

SQL>

SQL> insert into order\_list values('OP400','p001',3);

1 row created.

SQL> insert into order\_list values('OP400','p004',1);

1 row created.

SQL>

SQL> insert into order\_list values('OP500','p003',6);

1 row created.

SQL> insert into order\_list values('OP500','p004',5);

1 row created.

SQL> insert into order\_list values('OP500','p001',null);

1 row created.

SQL>

SQL> insert into order\_list values('OP600','p002',3);

1 row created.

SQL>

SQL> alter table orders add(total\_amt number(5),discount number(2),bill\_amount number);

Table altered.

SQL> --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SQL> desc orders;

Name Null? Type

----------------------------------------- -------- ----------------------------

ORDER\_NO NOT NULL VARCHAR2(5)

CUST\_ID VARCHAR2(4)

ORDER\_DATE DATE

DELV\_DATE DATE

TOTAL\_AMT NUMBER(5)

DISCOUNT NUMBER(2)

BILL\_AMOUNT NUMBER

SQL> REM:1. Write a stored function to display the total number of pizza's

SQL> REM:ordered by the given order number.

SQL>

SQL> create or replace function total\_number(num orders.order\_no%type)

2 return real IS

3 total number(3);

4 begin

5 select sum(qty) into total from order\_list o where order\_no=num;

6 return total;

7 end;

8 /

Function created.

SQL>

SQL> declare

2 x int;

3 name varchar2(20);

4 begin

5 name:='&order';

6 x:=tot\_num(name);

7 dbms\_output.put\_line('Total Number Of Pizzas Ordered : '||x);

8 end;

9 /

Enter value for order: OP200

old 5: name:='&order';

new 5: name:='OP200';

Total Number Of Pizzas Ordered : 16

PL/SQL procedure successfully completed.

SQL>

SQL>

SQL> REM:Write a PL/SQL block to calculate the total amount, discount and billable amount

SQL> REM:(Amount to be paid) as given below:

SQL> REM:For total amount > 2000 and total amount < 5000: Discount=5%

SQL> REM:For total amount > 5000 and total amount < 10000: Discount=10%

SQL> REM:For total amount > 10000: Discount=20%

SQL> REM:Calculate the billable amount (after the discount) and update the same in orders

SQL> REM:table.

SQL> REM:Bill Amount = Total – Discount.

SQL>

SQL>

SQL> create or replace procedure calculate is

2 tot number;

3 dis number;

4 bill number;

5 cursor c1 is select \* from orders;

6 cursor c2 is select o.order\_no,p.unit\_price,o.qty from order\_list o,pizza p where o.pizza\_id = p.pizza\_id;

7 begin

8 for cur in c1 loop

9 tot :=0;

10 for cur1 in c2 loop

11 if(cur.order\_no = cur1.order\_no and cur1.qty is not null) then

12 tot := tot+(cur1.unit\_price\*cur1.qty);

13 end if;

14 end loop;

15 update orders set total\_amt=tot where order\_no = cur.order\_no;

16 if(tot > 2000 and tot < 5000)then

17 dis := 5;

18 elsif(tot > 5000 and tot < 10000) then

19 dis := 10;

20 elsif(tot > 10000) then

21 dis := 20;

22 else

23 dis :=0;

24 end if;

25 update orders set discount=dis where order\_no = cur.order\_no;

26 bill := tot - tot\*(dis/100);

27 update orders set bill\_amount=bill where order\_no = cur.order\_no;

28 end loop;

29 end;

30 /

Procedure created.

SQL>

SQL> call calculate();

Call completed.

SQL> select \* from orders;

ORDER CUST ORDER\_DAT DELV\_DATE TOTAL\_AMT DISCOUNT BILL\_AMOUNT

----- ---- --------- --------- ---------- ---------- -----------

OP100 c001 28-JUN-15 30-JUN-15 2350 5 2232.5

OP200 c002 28-JUN-15 30-JUN-15 3260 5 3097

OP300 c003 29-JUN-15 01-JUL-15 600 0 600

OP400 c004 29-JUN-15 01-JUL-15 650 0 650

OP500 c001 29-JUN-15 01-JUL-15 2500 5 2375

OP600 c002 29-JUN-15 01-JUL-15 690 0 690

6 rows selected.

SQL>

SQL> REM:For the given order number, write a PL/SQL block to print the order as shown below:

SQL> REM:Hint: Use the PL/SQL blocks created in 1 and 2

SQL>

SQL> create or replace procedure bill(oid IN varchar2) is

2 tot int;

3 i int;

4 dis int;

5 bil number;

6 cursor c1 is select o.order\_no,c.cust\_name,o.order\_date,c.phone from orders o,customer c where c.cust\_id = o.cust\_id;

7 cursor c2 is select o.order\_no,p.pizza\_type,o.qty,p.unit\_price,o1.discount,o1.bill\_amount from order\_list o,pizza p,orders o1 where o.pizza\_id = p.pizza\_id and o.order\_no = o1.order\_no;

8 begin

9 tot :=0;

10 dis := 0;

11 bil :=0;

12 i:=1;

13 for cur in c1 loop

14 if(oid = cur.order\_no) then

15 dbms\_output.put\_line('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*');

16 dbms\_output.put\_line('Order Number:'||oid||' Customer Name:'||cur.cust\_name);

17 dbms\_output.put\_line('Order Date:'||cur.order\_date||' Phone Number:'||cur.phone);

18 dbms\_output.put\_line('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*');

19 end if;

20 end loop;

21 dbms\_output.put\_line('SNO PIZZA TYPE QTY PRICE AMOUNT');

22 for cur1 in c2 loop

23 if(oid = cur1.order\_no and cur1.qty is not null) then

24 dbms\_output.put\_line(i||' '||cur1.pizza\_type||' '||cur1.qty||' '||cur1.unit\_price||' '||cur1.qty\*cur1.unit\_price);

25 i:=i+1;

26 tot := tot+(cur1.qty\*cur1.unit\_price);

27 dis := cur1.discount;

28 bil := cur1.bill\_amount;

29 end if;

30 end loop;

31 dbms\_output.put\_line('------------------------------------------------------------');

32 dbms\_output.put\_line(' Total = '||TotalOrder(oid)||' '||tot);

33 dbms\_output.put\_line('------------------------------------------------------------');

34 dbms\_output.put\_line('Total Amount :Rs.'||tot);

35 dbms\_output.put\_line('Discount('||dis||'%) :Rs.'||tot\*(dis/100));

36 dbms\_output.put\_line('------------------------------------------------------------');

37 dbms\_output.put\_line('Amount to be paid :Rs.'||bil);

38 dbms\_output.put\_line('------------------------------------------------------------');

39 dbms\_output.put\_line('Great Offers! Discount up to 25% on Diwali Festival Day...');

40 dbms\_output.put\_line('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*');

41 end;

42 /

Procedure created.

SQL>

SQL> declare

2 order\_id varchar2(5);

3 x int;

4 begin

5 order\_id := '&order\_id';

6 select count(order\_no) into x from order\_list where order\_no = order\_id;

7 if(x = 0) then

8 dbms\_output.put\_line(order\_id||' Not Found');

9 else

10 bill(order\_id);

11 end if;

12 end;

13 /

Enter value for order\_id: OP100

old 5: order\_id := '&order\_id';

new 5: order\_id := 'OP100';

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Order Number:OP100 Customer Name:Hari

Order Date:28-JUN-15 Phone Number:9001200031

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SNO PIZZA TYPE QTY PRICE AMOUNT

1 spanish 5 260 1300

2 italian 1 200 200

3 grilled 2 230 460

4 pan 3 130 390

------------------------------------------------------------

Total = 11 2350

------------------------------------------------------------

Total Amount :Rs.2350

Discount(5%) :Rs.117.5

------------------------------------------------------------

Amount to be paid :Rs.2232.5

------------------------------------------------------------

Great Offers! Discount up to 25% on Diwali Festival Day...

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PL/SQL procedure successfully completed.

SQL>

SQL> spool off;