```
rem Harshini S - 185001058
SQL> set serveroutput on
SQL> 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> create table customer(
  2         cust_id varchar2(5) constraint pk1 primary key,
  3         cust_name varchar2(20),
  4         address varchar2(40),
  5         phone number(10));

Table created.

SQL>
SQL> create table pizza(
  2         pizza_id varchar2(5) constraint pizza_pk primary key,
  3         pizza_type varchar2(20),
  4         unit_price number(5));

Table created.

SQL>
SQL> create table orders(
  2         order_no varchar2(5) constraint o_pk primary key,
  3         cust_id varchar2(5) constraint cust_fk references customer(cust_id),
  4         order_date date,
  5         delv_date date);
```

```
Table created.

SQL>
SQL>
SQL> create table order_list(
  2         order_no varchar2(5) constraint ord_fk references orders(order_no),
  3         pizza_id varchar2(4) constraint p_fk references pizza(pizza_id),
  4         qty number(2),
  5         constraint or_cpk primary key (order_no,pizza_id));

Table created.

SQL>
SQL>
SQL> REM ---------------------------------------------------------------------------------------
>
SQL> REM customer(cust_id, cust_name,address,phone)
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>
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SQL>
SQL>
SQL> REM pizza (pizza_id, pizza_type, unit_price)
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>
SQL> REM insert into pizza values('p005','supremo',250);
SQL>
SQL>
SQL>
SQL> REM orders(order_no, cust_id, order_date ,delv_date)
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> 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> --1.Check whether the given pizza type is available. If not display appropriate message.
SQL> DECLARE
  2       p_type pizza.pizza_type%type;
  3       p pizza.pizza_type%type;
  4  BEGIN
  5       p_type:='&in_ptype';
  6       select pizza_type into p from pizza where pizza_type=p_type;
  7       if sql%found then
  8               dbms_output.put_line('TYPE FOUND');
  9       else
 10               dbms_output.put_line('TYPE NOT FOUND');
```

```
 11       end if;
 12  end;
 13  /
Enter value for in_ptype: pan
old   5: p_type:='&in_ptype';
new   5: p_type:='pan';
TYPE FOUND

PL/SQL procedure successfully completed.

SQL> /
Enter value for in_ptype: spanish
old   5: p_type:='&in_ptype';
new   5: p_type:='spanish';
TYPE FOUND

PL/SQL procedure successfully completed.

SQL> --2. For the given customer name and a range of order date, find whether a customer had
SQL> --placed any order, if so display the number of orders placed by the customer along
SQL> --with the order number(s).
SQL> DECLARE
  2       cname customer.cust_id%TYPE;
  3       st date;
  4       en date;
  5       ord orders.order_no%type;
  6       coun number(2);
  7       cursor c is select orders.order_no from customer,orders where
  8                 customer.cust_id=orders.cust_id and customer.cust_name=cname
  9                 and (orders.order_date between st and en);
 10  BEGIN
 11       cname:='&n';
 12       st:='&s';
 13       en:='&e';
 14       coun:=0;
 15       open c;
 16       loop
 17                 fetch c into ord;
 18                 if c%found then
 19                           coun:=coun+1;
 20                 else
 21                           dbms_output.put_line('not found');
 22                           exit;
```

```
 23                 end if;
 24       end loop;
 25       dbms_output.put_line('Total orders are ' || coun);
 26       close c;
 27  END;
 28  /
Enter value for n: Hari
old  11: cname:='&n';
new  11: cname:='Hari';
Enter value for s: 15-JUN-2015
old  12: st:='&s';
new  12: st:='15-JUN-2015';
Enter value for e: 15-JUL-2015
old  13: en:='&e';
new  13: en:='15-JUL-2015';
not found
Total orders are 2

PL/SQL procedure successfully completed.

SQL> /
Enter value for n: Hari
old  11: cname:='&n';
new  11: cname:='Hari';
Enter value for s: 10-JUN-2015
old  12: st:='&s';
new  12: st:='10-JUN-2015';
Enter value for e: 14-JUN-2015
old  13: en:='&e';
new  13: en:='14-JUN-2015';
not found
Total orders are 0

PL/SQL procedure successfully completed.

SQL> --3. Display the customer name along with the details of pizza type and its quantity
SQL> --ordered for the given order number. Also find the total quantity ordered for the given
SQL> --order number as shown below:
SQL>
SQL> DECLARE
  2       name customer.cust_name%type;
  3       pty pizza.pizza_type%type;
  4       ord orders.order_no%type;
```

```
  5       qcnt number(2);
  6       total number(2);
  7       cursor c is select customer.cust_name,pizza.pizza_type,order_list.qty from
customer,pizza,orders,order_list where
  8               orders.order_no=order_list.order_no and customer.cust_id=orders.cust_id and
pizza.pizza_id=order_list.pizza_id
  9               and order_list.order_no=ord;
 10  BEGIN
 11      total:=0;
 12      ord:='&orderno';
 13      open c;
 14      fetch c into name,pty,qcnt;
 15      dbms_output.put_line('Customer name: '||name);
 16      dbms_output.put_line('Pizza Type     Quantity');
 17      loop
 18              if c%found then
 19                      dbms_output.put_line(pty||'        '||qcnt);
 20                      total:= total+qcnt;
 21              else
 22                      exit;
 23              end if;
 24              fetch c into name,pty,qcnt;
 25      end loop;
 26      dbms_output.put_line('Total Quantity: '||total);
 27      close c;
 28  END;
 29  /
Enter value for orderno: OP100
old  12: ord:='&orderno';
new  12: ord:='OP100';
Customer name: Hari
Pizza Type     Quantity
pan        3
grilled        2
italian        1
spanish        5
Total Quantity: 11

PL/SQL procedure successfully completed.

SQL> /
Enter value for orderno: OP400
old  12: ord:='&orderno';
```

```
new  12: ord:='OP400';
Customer name: Raghu
Pizza Type      Quantity
pan         3
spanish         1
Total Quantity: 4

PL/SQL procedure successfully completed.

SQL> --4. Display the total number of orders that contains one pizza type, two pizza type and
SQL> --so on.
SQL>
SQL> DECLARE
  2       pcnt number(2);
  3       pt_count number(2);
  4       cursor c is select o_cnt,count(o_cnt) from (select order_no,count(order_no) o_cnt from
order_list group by order_no)
                  group by o_cnt order by o_cnt asc;
  5  BEGIN
  6       open c;
  7       dbms_output.put_line('Number of Orders that contains');
  8       loop
  9                 fetch c into pt_count,pcnt;
 10                 if c%notfound then
 11                           exit;
 12                 end if;
 13                 dbms_output.put_line(pt_count||' Pizza Types : '||pcnt);
 14       end loop;
 15       close c;
 16  END;
 17  /
Number of Orders that contains
1 Pizza Types : 2
2 Pizza Types : 1
3 Pizza Types : 2
4 Pizza Types : 1

PL/SQL procedure successfully completed.

SQL> spool off;
```