**UCS1412 – Database Lab**

**Assignment – 5**

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rem drop the tables.

SQL> drop table order\_list;

drop table order\_list

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> drop table orders;

drop table orders

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> drop table pizza;

drop table pizza

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> drop table customer;

drop table customer

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL>

SQL> rem creating the table

SQL>

SQL> create table customer

2 (

3 cust\_id varchar2(10) constraint cust\_pr primary key,

4 cust\_name varchar2(20),

5 address varchar2(40),

6 phone number(10)

7 );

Table created.

SQL>

SQL> create table pizza

2 (

3 pizza\_id varchar2(10) constraint pizza\_pr primary key,

4 pizza\_type varchar2(20),

5 unit\_price number(10)

6 );

Table created.

SQL>

SQL> create table orders

2 (

3 order\_no varchar2(10) constraint order\_pr primary key,

4 cust\_id varchar2(10) constraint cust\_fk references customer(cust\_id),

5 order\_date date,

6 delv\_date date

7 );

Table created.

SQL>

SQL> create table order\_list

2 (

3 order\_no varchar2(10) constraint order\_fk references orders(order\_no),

4 pizza\_id varchar2(10) constraint pizza\_fk references pizza(pizza\_id),

5 qty number(10),

6 constraint order\_list\_pk primary key(order\_no,pizza\_id)

7 );

Table created.

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>

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> REM 1. Check whether the given pizza type is available. If not display appropriate message.

SQL> Set serveroutput on;

SQL>

SQL> declare

2 n number(3);

3 ptype pizza.pizza\_type%type;

4 gtype pizza.pizza\_type%type;

5 cursor alltype is

6 select pizza\_type from pizza;

7

8 begin

9

10 ptype:='&type';

11 open alltype;

12 fetch alltype into gtype;

13

14 while alltype%found loop

15 if ptype=gtype then

16 n:=1;

17 end if;

18 fetch alltype into gtype;

19 end loop;

20 if n=1 then

21 dbms\_output.put\_line('Given type is available');

22 else

23 dbms\_output.put\_line('Given type is not available');

24 end if;

25 end;

26 /

Enter value for type: pan

old 10: ptype:='&type';

new 10: ptype:='pan';

Given type is available

PL/SQL procedure successfully completed.

SQL> REM 1. Check whether the given pizza type is available. If not display appropriate message.

SQL> Set serveroutput on;

SQL>

SQL> declare

2 n number(3);

3 ptype pizza.pizza\_type%type;

4 gtype pizza.pizza\_type%type;

5 cursor alltype is

6 select pizza\_type from pizza;

7

8 begin

9

10 ptype:='&type';

11 open alltype;

12 fetch alltype into gtype;

13

14 while alltype%found loop

15 if ptype=gtype then

16 n:=1;

17 end if;

18 fetch alltype into gtype;

19 end loop;

20 if n=1 then

21 dbms\_output.put\_line('Given type is available');

22 else

23 dbms\_output.put\_line('Given type is not available');

24 end if;

25 end;

26 /

Enter value for type: cheese

old 10: ptype:='&type';

new 10: ptype:='cheese';

Given type is not available

PL/SQL procedure successfully completed.

SQL> REM 2. For the given customer name and a range of order date, find whether a customer had

SQL> REM placed any order, if so display the number of orders placed by the customer along

SQL> REM with the order number(s).

SQL>

SQL> declare

2

3 cname customer.cust\_name%type;

4 sdate orders.order\_date%type;

5 edate orders.order\_date%type;

6 orno orders.order\_no%type;

7 n number(10);

8 cursor ordero is

9 select c.order\_no,count(\*) from customer a,orders b,order\_list c

10 where b.order\_no=c.order\_no and b.cust\_id=a.cust\_id and a.cust\_name=cname

11 and b.order\_date between sdate and edate

12 group by c.order\_no;

13 begin

14 cname:='&cname';

15 sdate:='&sdate';

16 edate:='&edate';

17 open ordero;

18 fetch ordero into orno,n;

19 while ordero%found loop

20 dbms\_output.put\_line('Customer name:'||cname);

21 dbms\_output.put\_line('Order number:'||orno);

22 dbms\_output.put\_line('Number of orders:'||n);

23 fetch ordero into orno,n;

24 end loop;

25 end;

26 /

Enter value for cname: Hari

old 14: cname:='&cname';

new 14: cname:='Hari';

Enter value for sdate: 28-JUN-2015

old 15: sdate:='&sdate';

new 15: sdate:='28-JUN-2015';

Enter value for edate: 30-JUN-2015

old 16: edate:='&edate';

new 16: edate:='30-JUN-2015';

Customer name:Hari

Order number:OP100

Number of orders:4

Customer name:Hari

Order number:OP500

Number of orders:3

PL/SQL procedure successfully completed.

SQL> REM 3. Display the customer name along with the details of pizza type and its quantity

SQL> REM ordered for the given order number. Also find the total quantity ordered for the given

SQL> REM order number as shown below:

SQL>

SQL> declare

2 ono orders.order\_no%type;

3 pqty order\_list.qty%type;

4 pcname customer.cust\_name%type;

5 ptype pizza.pizza\_type%type;

6 n number(3):=0;

7 cursor ordero is

8 select a.qty,c.cust\_name,d.pizza\_type from order\_list a,orders b,customer c,pizza d

9 where a.order\_no=b.order\_no and b.cust\_id=c.cust\_id and a.pizza\_id=d.pizza\_id and a.order\_no=ono;

10

11 begin

12 ono:='&orderno';

13 open ordero;

14 fetch ordero into pqty,pcname,ptype;

15 dbms\_output.put\_line('Customer Name: '||pcname);

16 dbms\_output.put\_line('Pizza type'||' Qty');

17 while ordero%found loop

18 dbms\_output.put\_line(ptype||' '||pqty);

19 n:=n+pqty;

20 fetch ordero into pqty,pcname,ptype;

21 end loop;

22 dbms\_output.put\_line('Total Quantity: '||n);

23 end;

24 /

Enter value for orderno: OP100

old 12: ono:='&orderno';

new 12: ono:='OP100';

Customer Name: Hari

Pizza type Qty

pan 3

grilled 2

italian 1

spanish 5

Total Quantity: 11

PL/SQL procedure successfully completed.

SQL> REM 4. Display the total number of orders that contains one pizza type, two pizza type and so on

SQL>

SQL> declare

2 n number(10):=0;

3 x number(10):=0;

4 y number(10):=0;

5 counter number(10):=1;

6 cursor c1 is select count(distinct pizza\_type) from pizza;

7

8 cursor c2 is

9 select count(a.order\_no) from order\_list a,orders b

10 where a.order\_no=b.order\_no

11 group by a.order\_no

12 having count(a.order\_no)=counter;

13

14 begin

15 open c1;

16 fetch c1 into n;

17 for count in 1..n loop

18 open c2;

19 fetch c2 into y;

20 x:=0;

21 while c2%found loop

22 x:=x+1;

23 fetch c2 into y;

24 end loop;

25 dbms\_output.put\_line('Pizza type'||counter||':'||x);

26 counter:=counter+1;

27 close c2;

28 end loop;

29 end;

30

31

32

33 /

Pizza type1:2

Pizza type2:1

Pizza type3:2

Pizza type4:1

PL/SQL procedure successfully completed.

SQL>