**UCS1412 – Database Lab**

**Assignment – 6**

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rem dropping 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.

REM 1. Write a stored function to display the total number of pizza's ordered by the given

SQL> REM order number.

SQL>

SQL> create or replace function total(orno order\_list.order\_no%type) return integer is

2 n integer:=0;

3 begin

4 select sum(qty) into n from order\_list where order\_no=orno;

5 return n;

6 exception when no\_data\_found then dbms\_output.put\_line('Order number not found');

7 return n;

8 end;

9 /

Function created.

SQL> declare

2 tot integer:=0;

3 orn order\_list.order\_no%type;

4 begin

5 orn:='&orn';

6 tot:=total(orn);

7 dbms\_output.put\_line('Total number of pizza is: '||tot);

8 end;

9 /

Enter value for orn: OP400

old 5: orn:='&orn';

new 5: orn:='OP400';

Total number of pizza is: 4

PL/SQL procedure successfully completed.

SQL> REM 2. Write a PL/SQL block to calculate the total amount, discount and billable amount

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

SQL>

SQL> alter table orders add total\_amt number(10);

Table altered.

SQL> alter table orders add discount number(10);

Table altered.

SQL> alter table orders add bill\_amt number(10);

Table altered.

SQL> create or replace procedure calc(amt number,orno orders.order\_no%type) is

2 damt number(10):=0;

3 bamt number(10):=0;

4 begin

5

6 if(amt >2000 and amt <5000) then

7 damt:=(amt\*0.05);

8 elsif(amt >5000 and amt <10000) then

9 damt:=(amt\*0.1);

10 elsif(amt >10000) then

11 damt:=(amt\*0.2);

12 else

13 damt:=0;

14 end if;

15 bamt:=amt-damt;

16 update orders set total\_amt=amt,discount=damt,bill\_amt=bamt where order\_no=orno;

17 end;

18 /

Procedure created.

SQL> declare

2 orno orders.order\_no%type;

3 amts number(10):=0;

4 cursor c1 is select order\_no from orders group by order\_no;

5 cursor c2 is

6 select sum(a.qty\*b.unit\_price) from order\_list a,pizza b

7 where a.pizza\_id=b.pizza\_id

8 group by a.order\_no

9 having a.order\_no=orno;

10 begin

11 open c1;

12 fetch c1 into orno;

13 while c1%found loop

14 open c2;

15 fetch c2 into amts;

16 calc(amts,orno);

17 close c2;

18 fetch c1 into orno;

19 end loop;

20 end;

21 /

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM orders;

ORDER\_NO CUST\_ID ORDER\_DAT DELV\_DATE TOTAL\_AMT DISCOUNT BILL\_AMT

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OP100 c001 28-JUN-15 30-JUN-15 2350 118 2232

OP200 c002 28-JUN-15 30-JUN-15 3260 163 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 125 2375

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

6 rows selected.

SQL> REM 3. 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> declare

2 orno orders.order\_no%type;

3 ordate orders.order\_date%type;

4 cusname customer.cust\_name%type;

5 cusph customer.phone%type;

6 piztype pizza.pizza\_type%type;

7 uprice pizza.unit\_price%type;

8 oqty order\_list.qty%type;

9 indi orders.bill\_amt%type;

10 sno integer:=1;

11 totamt orders.bill\_amt%type;

12 disamt orders.bill\_amt%type;

13 billamt orders.bill\_amt%type;

14 n integer:=0;

15 x integer:=0;

16 cursor c1 is

17 select a.order\_no,a.order\_date,b.cust\_name,b.phone,c.pizza\_type,c.unit\_price,d.qty,(d.qty\*c.unit\_price) as indiv,a.total\_amt

18 from orders a,customer b,pizza c,order\_list d

19 where a.order\_no=d.order\_no and a.cust\_id=b.cust\_id and d.pizza\_id=c.pizza\_id and a.order\_no=orno;

20 cursor c2 is

21 select a.total\_amt,a.discount,a.bill\_amt

22 from orders a

23 where a.order\_no=orno;

24 begin

25 orno:='&orno';

26 open c1;

27 fetch c1 into orno,ordate,cusname,cusph,piztype,uprice,oqty,indi,totamt;

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

29 dbms\_output.put\_line('Order Number:'||orno||' '||'Customer Name:'||cusname);

30 dbms\_output.put\_line('Order Date:'||ordate||' '||'Phone:'||cusph);

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

32 dbms\_output.put\_line('SNo'||' '||'Pizza Type'||' '||'Qty'||' '||'Price'||' '||'Amount');

33 while c1%found loop

34 dbms\_output.put\_line(sno||' '||piztype||' '||oqty||' '||uprice||' '||indi);

35 sno:=sno+1;

36 fetch c1 into orno,ordate,cusname,cusph,piztype,uprice,oqty,indi,totamt;

37 end loop;

38 n:=total(orno);

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

40 dbms\_output.put\_line(' '||'Total='||' '||n||' '||totamt);

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

42 open c2;

43 fetch c2 into totamt,disamt,billamt;

44 x:=(disamt\*100)/totamt;

45 dbms\_output.put\_line('Total amount:'|| totamt);

46 dbms\_output.put\_line('Discount'||'('||x||'%)'||':'|| disamt);

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

48 dbms\_output.put\_line('Amount to be paid:'|| billamt);

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

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

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

52 end;

53

54

55 /

Enter value for orno: OP100

old 25: orno:='&orno';

new 25: orno:='OP100';

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

Order Number:OP100 Customer Name:Hari

Order Date:28-JUN-15 Phone:9001200031

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

SNo Pizza Type Qty Price Amount

1 pan 3 130 390

2 grilled 2 230 460

3 italian 1 200 200

4 spanish 5 260 1300

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

Total= 11 2350

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

Total amount:2350

Discount(5%):118

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

Amount to be paid:2232

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

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

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

PL/SQL procedure successfully completed.

SQL>