DBMS Lab Exercise-8 Pl/SQL Cursors

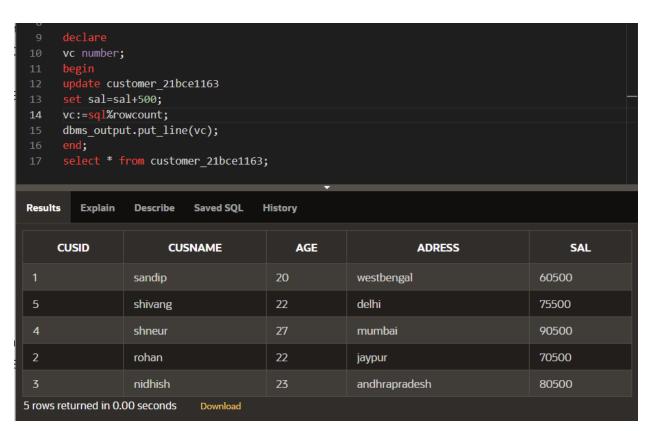
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```
create table customer_21bce1163 (cusid number(10), cusname
varchar(20), age number(10), adress varchar(20), sal number(10));
insert into customer_21bce1163(cusid ,cusname , age ,adress,sal)
values(1,'sandip',20,'westbengal',60000);
insert into customer_21bce1163(cusid ,cusname , age ,adress,sal)
values(2,'rohan',22,'jaypur',70000);
insert into customer_21bce1163(cusid ,cusname , age ,adress,sal)
values(3,'nidhish',23,'andhrapradesh',80000);
insert into customer_21bce1163(cusid ,cusname , age ,adress,sal)
values(4,'shneur',27,'mumbai',90000);
insert into customer_21bce1163(cusid ,cusname , age ,adress,sal)
values(5,'shivang',22,'delhi',75000);
select * from customer 21bce1163;
```

 Write implicit cursor program would update the table and increase salary of each customer by 500 and use the SQL%ROWCOUNT attribute to determine the number of rows affected.

```
Customer: ID | NAME | AGE | ADDRESS | SALARY
```

```
declare
vc number;
begin
update customer_21bce1163
set sal=sal+500;
vc:=sql%rowcount;
dbms_output.put_line(vc);
end;
select * from customer 21bce1163;
```

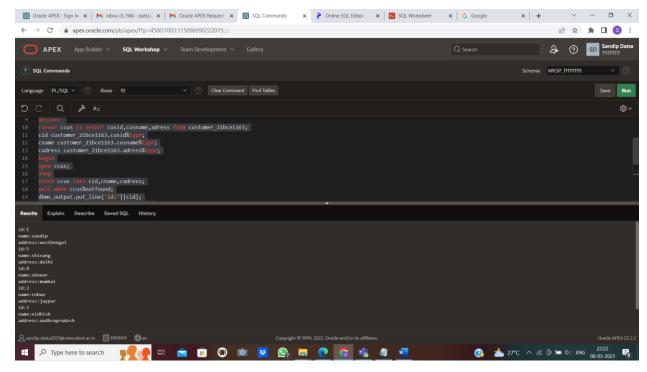


2. Write explicit cursor program fetch the customer id, name and address from the table.

```
Customer : ID | NAME
                        | AGE | ADDRESS | SALARY
declare
cursor ccus is select cusid, cusname, adress from customer_21bce1163;
cid customer_21bce1163.cusid%type;
cname customer_21bce1163.cusname%type;
cadress customer_21bce1163.adress%type;
begin
open ccus;
loop
fetch ccus into cid,cname,cadress;
exit when ccus%notfound;
dbms_output.put_line('id:'||cid);
dbms_output.put_line('name:'||cname);
dbms_output.put_line('address:'||cadress);
end loop;
```

close ccus;

end;



3. Consider schema of following

Sailor (sid, sname, rating, age)

Boat (bid, bname, color)

Reservation(sid, bid, day)

Sailor			
sid	sname	rating	age
22	Dustin	7	45.0
29	Brutus	1	33.0
31	Lubber	8	55.5
32	Andy	8	25.5
58	Rusty	10	35.0
64	Horatio	7	35.0
71	Zorba	10	16.0
74	Horatio	9	35.0
85	Art	3	25.5
95	Bob	3	63.5

Boat		
bid	bname	color
101	Interlake	blue
102	Interlake	red
103	Clipper	green
104	Marine	red

Reserve		
sid	bid	day
22	101	10/10/98
22	102	10/10/98
22	103	10/8/98
22	104	10/7/98
31	102	11/10/98
31	103	11/6/98
31	104	11/12/98
64	101	9/5/98
64	102	9/8/98
74	103	9/8/98

create table sailor (sid number(10), sname varchar(20), rating number(10), age number(2));

```
insert into sailor values(22,'dustin',7,45); insert into sailor values(29,'brutus',1,33); insert into sailor values(31,'lubber',8,55); insert into sailor values(32,'andy',8,25); insert into sailor values(58,'rusty',10,35); insert into sailor values(64,'horatio',7,35); insert into sailor values(71,'zorba',10,16); insert into sailor values(74,'horatio',9,35); insert into sailor values(85,'art',3,25); insert into sailor values(95,'bob',3,63); select * from sailor;
```

SID	SNAME	RATING	AGE
71	zorba	10	16
22	dustin	7	45
29	brutus	1	33
31	lubber	8	55
95	bob	3	63
32	andy	8	25
58	rusty	10	35
64	horatio	7	35
74	horatio	9	35
85	art	3	25
10 rows returned in 0.02 seconds Download			

create table boat (bid number(10), bname varchar(20), color varchar(20)); insert into boat values(101,'interlake','blue'); insert into boat values(102,'interlake','red'); insert into boat values(103,'clipper','green'); insert into boat values(104,'marine','red'); select * from boat;

BID	BNAME	COLOR
102	interlake	red
101	interlake	blue
104	marine	red
103	clipper	green
4 rows returned in 0.01 seconds Download		

create table reserve (sid number(10), bid number(10), day date); insert into reserve values(22,101,to_date('10-10-98','dd-mm-yy')); insert into reserve values(22,102,to_date('10-10-98','dd-mm-yy')); insert into reserve values(22,103,to_date('10-08-98','dd-mm-yy')); insert into reserve values(22,104,to_date('10-07-98','dd-mm-yy')); insert into reserve values(31,102,to_date('11-10-98','dd-mm-yy')); insert into reserve values(31,103,to_date('11-06-98','dd-mm-yy')); insert into reserve values(31,104,to_date('11-12-98','dd-mm-yy')); insert into reserve values(64,101,to_date('09-05-98','dd-mm-yy')); insert into reserve values(64,102,to_date('09-08-98','dd-mm-yy')); insert into reserve values(74,103,to_date('09-08-98','dd-mm-yy')); select * from reserve;

SID	BID	DAY
22		10/10/2098
22	102	10/10/2098
31		10/11/2098
22	104	07/10/2098
22		08/10/2098
31	103	06/11/2098
31		12/11/2098
74	103	08/09/2098
64		05/09/2098
64	102	08/09/2098
10 rows returned in 0.02 seconds Download		

Write an anonymous PL/SQL block that Defines a cursor that points to a record set that contains the sailors' names, reservation date and boat id where the boat color is red.

- a. Opens the cursor
- b. Uses a simple loop to fetch each record in the active set

c. Displays each last name, reservation date and boat id for each record to the output screen

declare cursor rb is select s.sname,r.day,r.bid from sailor s, reserve r,boat b where s.sid=r.sid and r.bid=b.bid and b.color='red'; csname sailor.sname%type; cday reserve.day%type; cbid reserve.bid%type; begin open rb; loop fetch rb into csname,cday,cbid; exit when rb%notfound; dbms_output.put_line('name'||csname); dbms_output.put_line('day'||cday); dbms_output.put_line('bid'||cbid); end loop; close rb; end;

namedustin
day10/10/2098
bid102
namedustin
day07/10/2098
bid104
namelubber
day10/11/2098
bid102
namelubber
day12/11/2098
bid104
namehoratio
day08/09/2098

Statement processed.

0.06 seconds

bid102