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| Programme | : | **B.Tech** | Semester | : | **Winter 19 - 20** |
| Course | : | **Database Management Systems** | Code | : | **CSE2004** |
| Faculty | : | **Dr.Bhuvaneswari A&Dr.Ayesha Sheik** | Slot | : | **L27 + L28** |

**Wilson Vidyut Doloy**

**19BCE1603**

Ex. No. 8

14.02.2020

**Pl/SQL Cursors**

1. 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

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

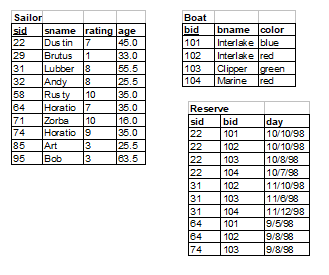
Customer :ID | NAME | AGE | ADDRESS | SALARY

1. Consider schema of following

Sailor (sid, sname, rating, age)

Boat (bid, bname, color)

Reservation(sid, bid, day)



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

* 1. Opens the cursor
  2. Uses a simple loop to fetch each record in the active set
  3. Displays each last name, reservation date and boat id for each record to the output screen

1. Write a cursor Program for the following :

a. To count number of Boats in Boats table.

b. To find age of Oldest Sailor and display his details.

c. Find the names of sailors who have reserved boat number 103.

**1**

set serveroutput on;

DECLARE

total\_rows number(2);

BEGIN

UPDATE CUSTOMER

set salary=salary+500;

if sql%notfound then

dbms\_output.put\_line('No customer selected');

elsif sql%found then

total\_rows:=sql%rowcount;

dbms\_output.put\_line(total\_rows || ' Customers selected');

end if;

end;

/

6 Customers selected

PL/SQL procedure successfully completed.

**2**

declare

c\_id customer.id%type;

c\_name customer.name%type;

c\_addr customer.address%type;

cursor c\_customer is

select id, name, address from customer;

begin

open c\_customer;

loop

fetch c\_customer into c\_id,c\_name,c\_addr;

exit when c\_customer%notfound;

dbms\_output.put\_line(c\_id || ' ' || c\_name || ' ' || c\_addr);

end loop;

close c\_customer;

end;

/

1 Ramesh Ahmedabad

2 Khilan Delhi

3 Kaushik Kota

4 Chaitali Mumbai

5 Hardik Bhopal

6 Komal MP

PL/SQL procedure successfully completed.

**3**

declare

cursor c\_reservations is

select s.name,r.day,r.bid

from sailor s, reservation r, boat b

where r.sid=s.sid

and r.bid=b.bid

and b.color='red';

v\_reservation c\_reservations%rowtype;

begin

open c\_reservations;

loop

fetch c\_reservations into v\_reservation;

exit when c\_reservations%notfound;

dbms\_output.put\_line(v\_reservation.name||''||v\_reservation.day||''||v\_reservation.bid);

end loop;

close c\_reservations;

end;

/

Dustin10-OCT-98102

Dustin10-JUL-98104

Lubber11-OCT-98102

Lubber11-DEC-98104

Horatio09-AUG-98102

PL/SQL procedure successfully completed.

**4a**

declare

v\_id boat.bid%type;

total number;

cursor c\_boat is

select bid from boat;

begin

open c\_boat;

loop

fetch c\_boat into v\_id;

if c\_boat%notfound then

exit;

else

total:=c\_boat%rowcount;

end if;

end loop;

dbms\_output.put\_line('total number of boats: '||total);

close c\_boat;

end;

/

Total number of boats: 4

PL/SQL procedure successfully completed.

**4b**

declare

v\_id sailor.sid%type;

v\_name sailor.sname%type;

v\_rating sailor.rating%type;

v\_age sailor.age%type;

cursor c\_sailor is

select sid,sname,rating,age from sailor

where age=max(age);

begin

open c\_sailore;

loop

fetch c\_sailor into v\_id,v\_name,v\_rating,v\_age;

exit when c\_boat%notfound;

dbms\_output.put\_line(vid || ‘ ’ || v\_name || ‘ ‘ || v\_rating || ‘ ‘ || v\_age);

end loop;

close c\_sailor;

end;

/

95 Bob 3 63.5

PL/SQL procedure successfully completed.

**4c**

declare

v\_name sailor.sname%type;

cursor c\_boat is

select s.sname from sailor s,reservation r

where s.sid=r.sid and r.bid=103;

begin

open c\_boat;

loop

fetch c\_boat into v\_name;

exit when c\_boat%notfound

dbms\_output.put\_line(v\_name);

end loop;

close c\_boat;

end;

/

Dustin

Lubber

Horatio

PL/SQL procedure successfully completed.