#### 1. Static Cursor

```
set serveroutput on;
  2
    -- Explict cursor or Static cursor
  3 declare
  4
        cursor c_emp is select ename, sal, job from emp;
  5
        v emp name varchar2(200);
  6
        v salary number;
  7
        v job varchar2(200);
  8
    begin
  9
         open c emp;
 10
         fetch c_emp into v_emp_name, v_salary, v_job;
 11
        dbms output.put line(v emp name||' '||v salary||' '||v job);
 12
         fetch c emp into v emp name, v salary, v job;
 13
         dbms output.put line(v emp name||' '||v salary||' '||v job);
 14
         fetch c_emp into v_emp_name, v_salary, v_job;
 15
         dbms output.put line(v emp name||' '||v salary||' '||v job);
 16
    end;
Script Output ×
📌 🧽 🖥 🚇 🕎 | Task completed in 0.065 seconds
SMITH 26000 CLERK
ALLEN 25000 SALESMAN
WARD 1250 SALESMAN
```

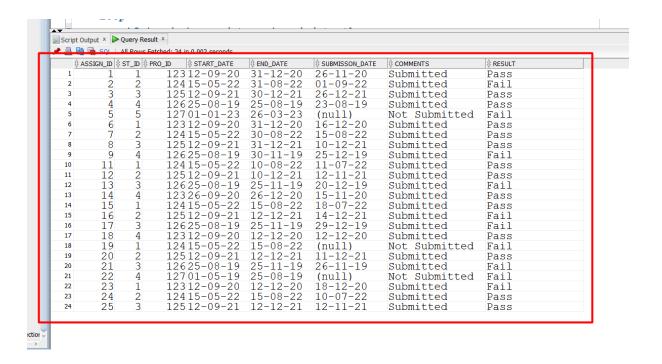
#### 2. %notfound example

```
3 -- %notfound example
 4 declare
 5
       cursor c emp is select ename, sal, job from emp;
 6
       v_emp_name varchar2(200);
 7
       v salary number;
 8
       v_job varchar2(200);
9 begin
10
       open c_emp;
       dbms_output.put_line('Emp_Name'||chr(9)||'Salary'||chr(9)||'job_Name');
11
12
          fetch c emp into v_emp_name, v_salary, v_job;
13
           exit when c emp%notfound;
14
1.5
           dbms_output.put_line(v_emp_name||chr(9)||chr(9)||v_salary||chr(9)||v job);
16
       end loop;
17
       close c emp;
18 end;
19 /
```

| 🎤 🥢 🖥 🚇 📦   Task completed in 0.056 seconds |        |           |
|---|--------|-----------|
| Emp_Name                                    | Salary | job_Name  |
| SMITH                                       | 26000  | CLERK     |
| ALLEN                                       | 25000  | SALESMAN  |
| WARD  | 1250   | SALESMAN  |
| JONES                                       | 2975   | MANAGER   |
| MARTIN                                      | 1250   | SALESMAN  |
| BLAKE                                       | 2850   | MANAGER   |
| CLARK                                       | 2450   | MANAGER   |
| SCOTT                                       | 3000   | ANALYST   |
| KING  | 5000   | PRESIDENT |
| TURNER                                      | 1500   | SALESMAN  |
| ADAMS                                       | 1100   | CLERK     |
| JAMES                                       | 1641.6 | CLERK     |
| FORD  | 3000   | ANALYST   |
| MILLER                                      | 1300   | CLERK     |
|   |        |           |

### 3. Update comments and result using cursors

```
Worksheet Query Builder
set serveroutput on;
   -- Update comments and result using cursors
  declare
      cursor c_project is select * from st_project_assignment;
  begin
      for i in c_project
       loop
           if i.submisson_date = i.end_date then
               update st project assignment set comments = 'Submitted', result = 'Pass' where end date = submisson date;
           elsif i.submisson_date is null then
              update st_project_assignment set comments = 'Not Submitted' ,result = 'Fail'where submisson_date is null;
           elsif i.submisson_date > i.end_date then
               update st_project_assignment set comments = 'Submitted',result = 'Fail' where submisson_date > end_date;
           elsif i.end_date > i.submisson_date then
              update st_project_assignment set comments = 'Submitted',result = 'Pass' where end_date > submisson date;
            end if;
       end loop;
       commit;
   end;
   /
```



### 4. Reverse a string (Words)

```
set serveroutput on;
   -- My name is Rajesh to Rajesh Is Name My
  declare
       v str varchar2(100):='My Name Is Rajesh';
       v_str2 varchar2(100):='';
       cursor c1 is
           select regexp_substr(v_str, '[^ ]+' , 1, level) as substr
           from dual connect by regexp substr(v str, '[^]+', 1, level) is not null
           order by rownum desc;
   begin
       for i in cl
       loop
           v str2:=v str2||i.substr||' ';
       end loop;
       dbms_output.put_line(v_str2);
   end;
📌 🥢 🖥 🚇 📓 | Task completed in 0.05 seconds
Rajesh Is Name My
PL/SQL procedure successfully completed.
```

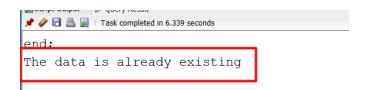
# 5. Display empno, empname, jobname, salary from emp table using cursor

```
Worksheet Query Builder
   --display empno, empname, job name, salary from emp table using cursor
  declare
       cursor c emp is
        (select empno, ename, job, sal from emp where deptno = 10);
   begin
       dbms output.put line('Row'||chr(9)||
                             'Empno'||chr(9)||
                             'Emp Name'||chr(9)||
                             'Job Name'||chr(9)||chr(9)||
                             'Salary');
       for i in c_emp
            dbms_output.put_line(to_char(c_emp%rowcount)||chr(9)||
                                 i.empno||chr(9)||
                                 i.ename||chr(9)||chr(9)||
                                 i.job||chr(9)||chr(9)||chr(9)||
                                 i.sal);
       end loop;
   end;
Script Output ×
📌 🥢 🔒 💂 | Task completed in 0.055 seconds
PL/SQL procedure successfully completed.
                                           Salary
Row Empno
             Emp Name
                          Job Name
1
    7782
             CLARK
                         MANAGER
                                           2450
2
    7839
             KING
                          PRESIDENT
                                               5000
    7934
                                           1300
             MILLER
                         CLERK
```

## 6. Reverse a string using function

```
Worksheet Query Builder
   set serveroutput on;
   -- Reverse a string using functions
  create or replace function reverse str (strl varchar2)
       return varchar2
       reverse str varchar2(200);
       for i in reverse 1..length(strl)
            reverse_str := reverse_str || substr(str1,i,1);
       end loop;
       return reverse_str;
   end;
  declare
       str1 varchar2(200):= :str;
       rev str1 varchar2(200);
   begin
       rev_str1 := reverse_str(str1);
       dbms_output.put_line('Old string is : '||str1);
       dbms output.put line('New String is : '||rev strl);
   end;
Script Output ×
📌 🥟 🖥 🚇 📘 | Task completed in 0.041 seconds
Old string is : Rajesh
New String is : hsejaR
```

```
24 /* insert data using function, If the data is already exist,
25 then raise an error, otherwise insert data */
26 declare
27
       v deptno number;
28
       v dname varchar2(220);
29
       v loc varchar2(200);
30
       1 counter number;
31 =
       function insert data(dname varchar2)
32
       return number
33
       is
34
       v_counter number;
35
       begin
36
           select count(dname) into v_counter from dept where dname = v_dname;
37
          return v counter;
38
39 begin
40
       v_dname:='&string';
       l_counter := insert_data(v_dname);
41
42 □
       if 1 counter > 0 then
43
       dbms output.put line('The data is already existing');
44
45
          insert into dept (dname) values(v dname);
46
       end if;
47 end;
```



PL/SQL procedure successfully completed.

