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Jurusan : Sistem Informasi
Mata Kuliah : UTS Database Design and Management (Practice)

```
--no 1
create or replace function temperature(data_temp in number, data_char in char)
return number is
    v_result number(6,1);

begin
    if data_char = 'C' or data_char = 'c' then
        v_result := 5/9 * (data_temp - 32);
    elsif data_char = 'F' or data_char = 'f' then
        v_result := (9/5 * data_temp) + 32;
    end if;
    return v_result;
end;
/

declare
    v_temp number := '&temp';
    v_char char := '&char';
    v_result number;
begin
    v_result := temperature(v_temp,v_char);
    if v_char = 'C' or v_char = 'c' then
        dbms_output.put_line('Konversi dari Fahrenheit ke Celcius');
        dbms_output.put_line(v_temp || ' F' || '=' || v_result || ' C');
    elsif v_char = 'F' or v_char = 'f' then
        dbms_output.put_line('Konversi dari Celcius ke Fahrenheit');
        dbms_output.put_line(v_temp || ' C' || '=' || v_result || ' F');
    else
        dbms_output.put_line('You entered the wrong code');
    end if;
end;
```

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Connections

- 825200049 - Afina Putri Dayanti
- Oracle NoSQL Connections
- Cloud Connections

SQL Worksheet History

Worksheet Query Builder

```
--1
create or replace function temperature(data_temp in number, data_char in char)
return number is
    v_result number(6,1);

begin
    if data_char = 'C' or data_char = 'c' then
        v_result := 5/9 * (data_temp - 32);
    elsif data_char = 'F' or data_char = 'f' then
        v_result := (9/5 * data_temp) + 32;
    end if;
    return v_result;
end;
/

declare
```

Script Output

Task completed in 0.012 seconds

PL/SQL procedure successfully completed.

Konversi dari Fahrenheit ke Celcius
80 F = 26.7 C

Saved: C:\Users\afinapd\AppData\Roaming\SQL Developer\uts.sql | Line 13 Column 10 | Insert | Windows: C

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Connections

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SQL Worksheet History

Worksheet Query Builder

```
/

declare
    v_temp number := 'atemp';
    v_char char := 'schar';
    v_result number;
begin
    v_result := temperature(v_temp,v_char);
    if v_char = 'C' or v_char = 'c' then
        dbms_output.put_line('Konversi dari Fahrenheit ke Celcius');
        dbms_output.put_line(v_temp || ' F' || ' = ' || v_result || ' C');
    elsif v_char = 'F' or v_char = 'f' then
        dbms_output.put_line('Konversi dari Celcius ke Fahrenheit');
        dbms_output.put_line(v_temp || ' C' || ' = ' || v_result || ' F');
    else
        dbms_output.put_line('You entered the wrong code');
    end if;
end;
/
```

Script Output

Task completed in 0.005 seconds

PL/SQL procedure successfully completed.

Konversi dari Fahrenheit ke Celcius
80 F = 26.7 C

Click on an identifier with the Control key down to perform "Go to Declaration" | Line 24 Column 34 | Insert | Modified | Windows: C

```

--no 2
declare
cursor cur_depts_locs is
select d.department_name, d.location_id, l.street_address, l.city
from departments d join locations l
on d.location_id = l.location_id;
v_cur_depts_locs cur_depts_locs%rowtype;
begin
open cur_depts_locs;
loop
fetch cur_depts_locs into v_cur_depts_locs;
exit when cur_depts_locs%notfound;
dbms_output.put_line(v_cur_depts_locs.department_name || ' - ' || v_cur_depts_locs.location_id || ' - ' ||
v_cur_depts_locs.street_address || ' - ' || v_cur_depts_locs.city);
end loop;
close cur_depts_locs;
end;

```

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Connections

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Oracle NoSQL Connections

Cloud Connections

SQL Worksheet History

Worksheet Query Builder

```

--2
declare
cursor cur_depts_locs is
select d.department_name, d.location_id, l.street_address, l.city
from departments d join locations l
on d.location_id = l.location_id;
v_cur_depts_locs cur_depts_locs%rowtype;
begin
open cur_depts_locs;
loop
fetch cur_depts_locs into v_cur_depts_locs;
exit when cur_depts_locs%notfound;
dbms_output.put_line(v_cur_depts_locs.department_name || ' - ' || v_cur_depts_locs.location_id || ' - ' || v_cur_depts_locs.street_address || ' - ' || v_cur_depts_locs.city);
end loop;
close cur_depts_locs;
end;

```

Script Output x

Task completed in 0.01 seconds

```

Administration - 1700 - 2004 Charade Rd - Seattle
Marketing - 1800 - 460 Bloor St. W. - Toronto
Shipping - 1500 - 2011 Interiors Blvd - South San Francisco
IT - 1400 - 2014 Jabberwocky Rd - Southlake
Sales - 2500 - Magdalen Centre, The Oxford Science Park - Oxford
Executive - 1700 - 2004 Charade Rd - Seattle
Accounting - 1700 - 2004 Charade Rd - Seattle
Contracting - 1700 - 2004 Charade Rd - Seattle

```

Click on an identifier with the Control key down to perform "Go to Declaration"

| Line 42 Column 23 | Insert | Modified | Windows: C

```

--no 3
declare
  v_last_name employees.last_name%type;
  v_salary    employees.salary%type;
  v_new_salary employees.salary%type;
begin
  select last_name, salary into v_last_name, v_salary
  from employees
  where employee_id = '&x';
  if v_salary < 10000 then
    v_new_salary := v_salary + (v_salary * 0.20);
    dbms_output.put_line('Last Name is ' || v_last_name || ' with salary ' || v_salary || ' and new salary is ' ||
v_new_salary);
  elsif v_salary < 15000 then
    v_new_salary := v_salary + (v_salary * 0.10);
    dbms_output.put_line('Last Name is ' || v_last_name || ' with salary ' || v_salary || ' and new salary is ' ||
v_new_salary);
  else
    v_new_salary := v_salary;
    dbms_output.put_line('Last Name is ' || v_last_name || ' cant get additional salary because her/his salary
is ' || v_new_salary);
  end if;
end;

```

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SQL Worksheet History

825200049 - Afina Putri Dayanti

Worksheet Query Builder

```

--no 3
declare
  v_last_name employees.last_name%type;
  v_salary    employees.salary%type;
  v_new_salary employees.salary%type;
begin
  select last_name, salary into v_last_name, v_salary
  from employees
  where employee_id = '&x';
  if v_salary < 10000 then
    v_new_salary := v_salary + (v_salary * 0.20);
    dbms_output.put_line('Last Name is ' || v_last_name || ' with salary ' || v_salary || ' and new salary is ' || v_new_salary);
  elsif v_salary < 15000 then
    v_new_salary := v_salary + (v_salary * 0.10);
    dbms_output.put_line('Last Name is ' || v_last_name || ' with salary ' || v_salary || ' and new salary is ' || v_new_salary);
  else
    v_new_salary := v_salary;
    dbms_output.put_line('Last Name is ' || v_last_name || ' cant get additional salary because her/his salary is ' || v_new_salary);
  end if;
end;

```

Script Output

Task completed in 0.006 seconds

Last Name is Fay with salary 6000 and new salary is 7200

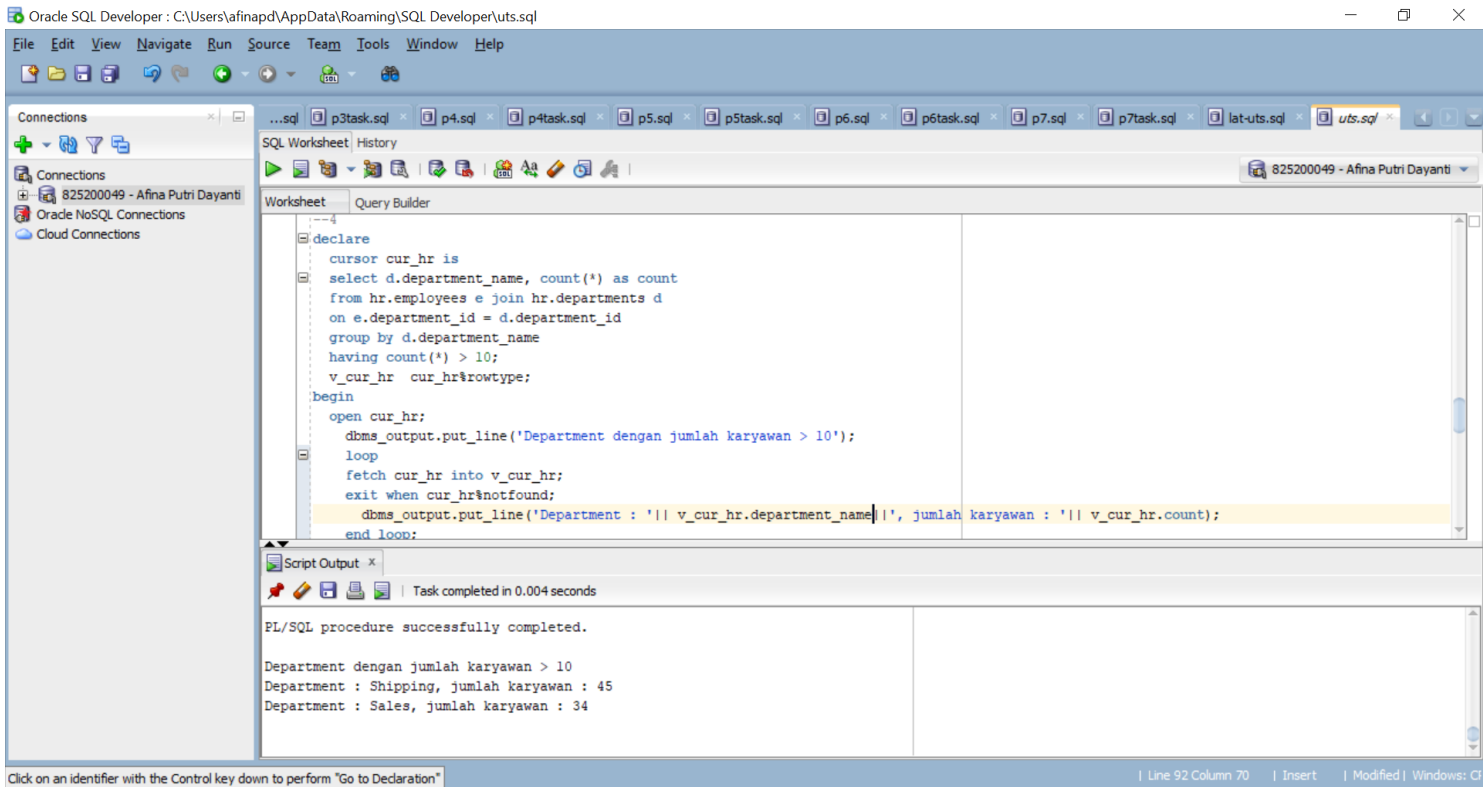
Click on an identifier with the Control key down to perform "Go to Declaration"

Line 56 Column 8 | Insert | Modified | Windows: C

```

--no 4
declare
cursor cur_hr is
select d.department_name, count(*) as count
from hr.employees e join hr.departments d
on e.department_id = d.department_id
group by d.department_name
having count(*) > 10;
v_cur_hr cur_hr%rowtype;
begin
open cur_hr;
  dbms_output.put_line('Department dengan jumlah karyawan > 10');
  loop
    fetch cur_hr into v_cur_hr;
    exit when cur_hr%notfound;
    dbms_output.put_line('Department : '|| v_cur_hr.department_name||', jumlah karyawan : '||
v_cur_hr.count);
  end loop;
close cur_hr;
end;

```



```

--no 5
declare
cursor cur_jobs is
select j.job_title as job_title, max(e.salary) as max_salary, min(e.salary) as min_salary, avg(e.salary) as
avg_salary
from employees e join jobs j
on e.job_id = j.job_id
where e.job_id = '&job'
group by j.job_title;
begin
for v_jobs_record in cur_jobs
loop
dbms_output.put_line('Job Title    : ' || v_jobs_record.job_title);
dbms_output.put_line('Gaji Tertinggi : ' || v_jobs_record.max_salary);
dbms_output.put_line('Gaji Terendah  : ' || v_jobs_record.min_salary);
dbms_output.put_line('Gaji Rerata   : ' || v_jobs_record.avg_salary);
end loop;
end;

```

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Connections

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- Cloud Connections

SQL Worksheet History

Worksheet Query Builder

```

--5
declare
cursor cur_jobs is
select j.job_title as job_title, max(e.salary) as max_salary, min(e.salary) as min_salary, avg(e.salary) as avg_salary
from employees e join jobs j
on e.job_id = j.job_id
where e.job_id = '&job'
group by j.job_title;
begin
for v_jobs_record in cur_jobs
loop
dbms_output.put_line('Job Title    : ' || v_jobs_record.job_title);
dbms_output.put_line('Gaji Tertinggi : ' || v_jobs_record.max_salary);
dbms_output.put_line('Gaji Terendah  : ' || v_jobs_record.min_salary);
dbms_output.put_line('Gaji Rerata   : ' || v_jobs_record.avg_salary);
end loop;
end;

```

Script Output

Task completed in 0.014 seconds

PL/SQL procedure successfully completed.

```

Job Title      : Accounting Manager
Gaji Tertinggi : 12000
Gaji Terendah  : 12000
Gaji Rerata    : 12000

```

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 106 Column 6 | Insert | Modified | Windows: C

```

--no 6
declare
  v_first number := '&first';
  v_last  number := '&last';
  v_ganjil number := 0;
  v_genap  number := 0;
begin
  for i in v_first..v_last loop
    if mod(i, 2) = 0 then
      v_genap := v_genap + 1;
    else
      v_ganjil := v_ganjil + 1;
    end if;
  end loop;
  dbms_output.put_line('Diantara bilangan ' || v_first || ' dan ' || v_last);
  dbms_output.put_line('Jumlah bilangan Ganjil adalah : ' || v_ganjil);
  dbms_output.put_line('Jumlah bilangan Genap adalah : ' || v_genap);
end;

```

