

Cheatography

PLSQL Cheat Sheet by juliosueiras via cheatography.com/23055/cs/6461/

Function	Packages (cont)	Conditional and Loops (cont)	Conditional and Loops (cont)
<pre>CREATE OR REPLACE FUNCTION function_name (param eter_1 data_type, Paramete_r_2 data_type) RETURN data_type { IS AS } [decla rat ion _se -ction] BEGIN execut abl e_s ection [EXCEPTION except ion _se ction] END [function _name];</pre>	<pre>> procedure_or_function_specification_2; END [package_name]; Package body CREATE PACKAGE BODY package_name { IS AS } procedure_or_function_body_1; procedure_or_function_body_2; END [package_name];</pre>	<pre>> dbms_output.put_line(myvar); DECLARE myvar number; BEGIN myvar:=2; dbms_output.put_line(myvar); END; dbms_output.put_line(myvar); END; IF THEN ELSE END IF DECLARE v_number NUMBER; BEGIN IF v_number<=0 THEN dbms_output.put_line('it is less than 0'); ELSIF v_number>=0 THEN dbms_output.put_line('it is greater than 0'); ELSE dbms_output.put_line('not either of the case'); END IF; END; Loops FOR IN .. LOOP {statements}; END LOOP; WHILE condition LOOP</pre>	<pre>> {statements}; END LOOP; LOOP {statemens}; EXIT WHEN condition; CONTINUE WHEN condition; END LOOP; Loops DECLARE i NUMBER :=10; BEGIN FOR i IN 1..5 LOOP dbms_output.put_line(i); END LOOP; dbms_output.put_line(i); END; CASE – Simple Case CASE expression WHEN value_1 THEN .. WHEN value_2 THEN ELSE END CASE; CASE – Searched Case WHEN boolean_expression THEN ELSE END CASE;</pre>
Procedures	Bind variable		
<pre>Create [or REPLACE] PROCEDURE procedure_name (paramete_r _name_1 data_type, paramete_r _name_2 data_type) { IS AS } pl_sql _block Parameter By position By name</pre>	<pre>Need to specify type Need to wrap around quote when assign string value No need quote when reference the variable Value can only be assigned in a PL, via exec or Begin / End block Use PRINT to list out bind variable</pre>		
Packages	Conditional and Loops		
<pre>CREATE PACKAGE package_name { IS AS } proced ure _or _fu nct -ion _sp ecific ati -on_1;</pre>	<pre>Declare and use of variable %TYPE %ROWTYPE VARCHAR2 NUMBER DATE Assignment operator := Nested block variable scope DECLARE myvar number; BEGIN myvar:=1;</pre>		



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Function vs Procedures	Substitution variable	Procedures Parts (cont)	Parameter Modes in PL/SQL Subprograms (cont)	
Function must return a value. Procedure can not return a value	No need to specify type, as it is always character type	3 Exception-handling This is again an optional part. It contains the code that handles run-time errors.	2 OUT An OUT parameter returns a value to the calling program. Inside the subprogram, an OUT parameter acts like a variable. You can change its value and reference the value after assigning it. The actual parameter must be variable and it is passed by value.	
Function and procedure can both return data in OUT and IN OUT parameters	No need to wrap around quote when assign value			
Function can be called from SQL, but not for procedure	Need quote when reference the variable			
Can not perform a DML DDL within function, while allowed in procedure	ACCEPT implicitly defined a substitution type variable	Parameter Modes in PL/SQL Subprograms S.N. Parts & Description		
	Use DEFINE to list out substitution variable	1 IN An IN parameter lets you pass a value to the subprogram. It is a read-only parameter. Inside the subprogram, an IN parameter acts like a constant. It cannot be assigned a value. You can pass a constant, literal, initialized variable, or expression as an IN parameter. You can also initialize it to a default value; however, in that case, it is omitted from the subprogram call. It is the default mode of parameter passing. Parameters are passed by reference.	3 IN OUT An IN OUT parameter passes an initial value to a subprogram and returns an updated value to the caller. It can be assigned a value and its value can be read. The actual parameter corresponding to an IN OUT formal parameter must be a variable, not a constant or an expression. Formal parameter must be assigned a value. Actual parameter is passed by value.	
Trigger	Procedures Parts	Packages Code Example CREATE OR REPLACE PACKAGE roppkg AS PROCEDURE ropmall(pi_city varchar2 default 'Mississippi');		
<pre>CREATE [OR REPLACE] TRIGGER trigger_name BEFORE AFTER [INSERT, UPDATE, DELETE [COLUMN NAME...] ON table_name Referencing [OLD AS OLD NEW AS NEW] FOR EACH ROW FOR EACH STATEMENT [WHEN Condition] DECLARE [declaration_section] BEGIN [executables] EXCEPTION [exception_section] END;</pre>	S.N. Parts & Description 1 Declarative Part It is an optional part. However, the declarative part for a subprogram does not start with the DECLARE keyword. It contains declarations of types, cursors, constants, variables, exceptions, and nested subprograms. These items are local to the subprogram and cease to exist when the subprogram completes execution. 2 Executable Part This is a mandatory part and contains statements that perform the designated action.	<pre>CREATE OR REPLACE PACKAGE roppkg AS PROCEDURE ropmall (pi_city varchar2 default 'Mississippi');</pre>		



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Packages Code Example (cont)

```
> pi_mall varchar2,  
pi_city_code out varchar2);  
FUNCTION roppop  
(pi_city varchar2 default'Mississ-  
auga')  
RETURN NUMBER;  
END;  
CREATE OR REPLACE  
PACKAGE BODY roppkg AS  
PROCEDURE ropmall  
(pi_city varchar2 default 'Missis-  
ssauga',  
pi_mall varchar2,  
pi_city_code out varchar2)  
AS  
l_cnt NUMBER;  
l_cid number;  
BEGIN  
SELECT count(1) INTO l_cnt  
from  
mall a  
WHERE  
a.mall_name=pi_mall  
;  
IF l_cnt = 0  
THEN  
SELECT cid into l_cid  
FROM rop  
WHERE CITY=pi_city;  
  
INSERT INTO mall VALUES  
(l_cid, pi_mall);
```

Packages Code Example (cont)

```
> END IF;  
COMMIT;  
pi_city_code:=l_cid;  
END;  
FUNCTION roppop  
(pi_city varchar2 default'Mississ-  
auga')  
RETURN NUMBER AS  
l_pop NUMBER;  
BEGIN  
SELECT population INTO l_pop  
from  
rop WHERE city=pi_city;  
RETURN l_pop;  
END;  
END;
```

Function Example

```
CREATE or REPLACE  
FUNCTION roppop  
(pi_city varchar2 )  
RETURN NUMBER AS  
l_pop NUMBER;  
BEGIN  
SELECT population INTO  
l_pop from  
rop WHERE city=p -  
i_city;  
RETURN l_pop;  
END;
```

Procedures Example

```
CREATE or REPLACE  
PROCEDURE ropmall  
(pi_city varchar2  
default 'Mississauga',  
pi_mall varchar2,  
pi_city_code out  
varchar2)  
AS  
l_cnt NUMBER;  
l_cid number;  
BEGIN  
dbms_output.put_line ('  
_line( nvl (pi_ci -  
ty_code, ' NUL L')));  
  
SELECT count(1) INTO  
l_cnt from  
mall a  
WHERE  
a.mall_name= -  
pi_mall  
;  
IF l_cnt = 0  
THEN  
SELECT cid into  
l_cid  
FROM rop  
WHERE CITY=p -  
i_city;  
  
INSERT INTO mall  
VALUES (l_cid, pi_mall);  
END IF;  
COMMIT;  
pi_city_code :=l -  
_cid;  
END;
```



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