

Coding Conventions for PL/SQL Project

Variables

General form

[SC_][DT_]<name>[_PF]

Description

<name> ... variable rootname

[] ... indicates optional. Depending on the variable type, not all pre- and/or postfixes are necessary.

SC ... indicates the scope prefix, either l_ for local or g_ for global.

l ... local variable

g ... global variable

DT ... indicates the datatype of variable

bi ... binary_integer

b ... boolean

v ... char

d ... date

x ... exception

i ... integer

l ... long

lr ... longraw

na ... natural

n ... number

r ... raw

row ... rowid

v ... varchar2

PF ... postfix that indicates type of parameter

in ... input parameter

ou ... output parameter

io ... input/output parameter

cur ... cursor

cv ... cursor variables

rec ... variables declared using %ROWTYPE

Example	Description
l_i_employeeID	local variable, datatype is integer, variable employeeID
g_v_surname	global variable, varchar, surname
l_d_birthday_in	local, date, birthday, input variable
n_age_out	number, age, output
employee_cur	employee cursor
x_balance_too_low	exception balance_too_low
person_rec	variable (record) declared using %ROWTYPE

Named Blocks

General form

BT_[TT_][TE_]<name>[_PF]

Description

<name> ... variable rootname

[] ... indicates optional. Depending on the block type, not all pre- and/or postfixes are necessary.

BT ... indicates the type of the named block

pa ... indicates a package

sp ... indicates a procedure

f ... indicates a function

tr ... indicates a trigger

TT ... indicates the trigger type

bs ... before statement

br ... before row

ar ... after row

as ... after statement

TE ... indicates the trigger extension

d ... trigger fires when a DELETE statement modifies the base table

I ... trigger fires when an INSERT statement modifies the base table

u ... trigger fires when an UPDATE statement modifies the base table

PF ... postfix that indicates datatype of return parameter

bi ... binary_integer

b ... boolean

v ... char

d ... date

x ... exception

i ... integer

l ... long

lr ... longraw

na ... natural

n ... number

r ... raw

row ... rowid

v ... varchar2

Example	Description
pa_calculations	Package named calculations
sp_flightinfo	Procedure named flightinfo
f_age_i	Function called age, returns integer value
tr_bs_d_person	Before statement trigger (delete) named person
tr_br_i_person	Before row trigger (insert) named person
Tr_ar_u_person	After row trigger (update) named person
tr_as_diu_person	After statement trigger (delete, insert, update) named person

SQL-Script Headers

Package header

```
/******  
/*  
/* Filename: TopCoder_Unit_Test.pkg  
/* Package: Unit_Test_Frmwrk  
/* Developer: TCSDeveloper  
/* Description: Description of PL/SQL package...  
/*  
/******
```

Function Header

```
/******  
/**  
/** Function: get_employee_ssn  
/** In: p_employee_id – the id of the employee to search for  
/** Returns: the Social Security Number for the employee  
/** Developer: TCSDeveloper  
/** Description: Description of PL/SQL function  
/**  
/******
```

Procedure Header

```

/*****
/**
/** Procedure ins_employee
/** Out: p_employee_id – the id of the newly created employee.
/** In: p_ssn – the Social Security Number of the employee to insert.
/** In: p_name – the name of the employee to insert.
/** Developer: TCSDeveloper
/** Description: Description of PL/SQL procedure
/**
*****/
```

Trigger Header

```

/*****
/**
/** Trigger: employee_ssn
/** Type: Before row
/** Type Extension: delete
/** Developer: TCSDeveloper
/** Description: Description of PL/SQL trigger
/**
*****/
```

Table Header

```

/*****
/**
/** Table: employee
/** Developer: TCSDDeveloper
/** Description: Description of PL/SQL trigger
/**
*****/

```

Table View

```

/*****
/**
/** Table: employee
/** Developer: TCSDDeveloper
/** Description: Description of PL/SQL trigger
/**
*****/

```