# PL/SQL – Named blocks

The aim of this tutorial is to learn to write reusable code, such as procedure and functions

## Task 1 – Procedure

1. Create a procedure add\_emp in SQL commands

create or replace PROCEDURE add\_emp (empno\_in IN NUMBER, ename\_in IN VARCHAR2, job\_in IN VARCHAR2, mgr\_in IN NUMBER, hiredate\_in IN DATE, sal\_in IN NUMBER , comm\_in IN NUMBER, deptno\_in IN NUMBER)

AS

BEGIN

   INSERT INTO emp(empno, ename, job, mgr, hiredate, sal, comm, deptno)

VALUES(empno\_in, ename\_in, job\_in, mgr\_in, hiredate\_in, sal\_in, comm\_in, deptno\_in);

END add\_emp;

1. Go to object browser and find where has this procedure code (the object)
2. Go back to SQL commands and test this procedure, Test 1

BEGIN

add\_emp (1, 'jj', 'boss', '7499','02/20/1981','9999','','30');

END

1. Select data from emo datable to view the new record included
2. Test 2

BEGIN

add\_emp (2, 'Ali', 'help', '7499','02/20/1981','9999','','20');

END

1. Select data from emo datable to view the new record included
2. Now try this, and explain what have we done here…

BEGIN

add\_emp (3, 'James', 'help', '7499','02/20/1981','9999','','10');

add\_emp (4, 'John', 'help', '7499','02/20/1981','9999','','10');

add\_emp (5, 'Ali', 'help', '7499','02/20/1981','9999','','10');

END

1. Select data from emo datable to view the new record included

## Task 2 – Function

1. Create a function get\_deptno

create or replace FUNCTION get\_deptno(lv\_ename IN VARCHAR)

RETURN NUMBER

AS

lv\_deptno NUMBER;

BEGIN

SELECT deptno INTO lv\_deptno FROM emp WHERE ename = lv\_ename;

RETURN lv\_deptno;

END get\_deptno;

1. Then test it

BEGIN

DBMS\_OUTPUT.PUT\_LINE ('Employee is in: ' || get\_deptno('BLAKE'));

END;

You should have output like this:

Employee is in: 30

1. Test again for different employee

BEGIN

DBMS\_OUTPUT.PUT\_LINE ('Employee is in: ' || get\_deptno('BLAKE'));

END;

1. Now if you like you could amend the above to also display the department name.