Advance PL/SQL - Notes for students References

-----

-----

\_\_\_\_\_\_

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

**Packages** 

\*\*\*\*\*

Packages are schema objects that groups logically related PL/SQL types, variables, and subprograms.

A package will have two mandatory parts -

Package specification
Package body or definition

Packages let you encapsulate logically related types, items, and subprograms in a named PL/SQL module.

Each package is easy to understand, and the interfaces between packages are

simple, clear, and well defined.

The specification is the interface to the package.

It just DECLARES the types, variables, constants, exceptions, cursors, and subprograms that can be referenced from outside the package. In other words, it contains all information about the content of the package, but excludes the code for the subprograms.

All objects placed in the specification are called public objects.

Package Body
\*\*\*\*\*\*\*\*\*\*\*

The package body has the codes for various methods declared in the package specification and other private

declarations, which are hidden from the code outside the package.

The CREATE PACKAGE BODY Statement is used for creating the package body

## Question

\*\*\*\*\*

Create a package called sales\_salary which will have a user defined procedure called find\_sal.

\_\_\_\_\_\_

\_\_\_\_\_

CREATE PACKAGE sales salary AS

```
PROCEDURE find sal(s no
salespeople.snum%type);
END sales salary;
Question
******
Create a package body called sales_salary
in which a procedure called find_sal will
fetch the details of
saleman which will be called from a
different pl/sql block.
Packages body or defenition (ppbody.sql)
******
CREATE OR REPLACE PACKAGE BODY
sales salary AS
   PROCEDURE find sal(s no
salespeople.snum%type) IS
    s salary salespeople.comm%TYPE;
    BFGTN
```

```
SELECT comm into s salary
      FROM salespeople
      WHERE snum = s no;
      dbms_output.put_line('Insentive is
: '|| s_salary);
  END find_sal;
END sales_salary;
______
example of using package elements to
execute the code from a different pl/sql
block to accept sales man number and call
the procedure declared in the above
block.
******************
******
following code from sql *plus or execute
it from following
*/
DECLARE
  code salespeople.snum%type := &snum;
BEGIN
sales salary.find sal(code);
```

```
END;
______
Dropping the pacakge
*********
sql> DROP PACKAGE BODY sales_salary ;
to drop specifications and body
sql>DROP PACKAGE sales_salary ;
______
______
```