Creating PL/SQL Functions:

The PL/SQL Function is very similar to PL/SQL Procedure. Except the fact that it always returns a value.

Except this, all the other things of PL/SQL procedure are true for PL/SQL function too.

Syntax to create a function:

Here:

- * Function_name: specifies the name of the function.
- * [OR REPLACE] option allows modifying an existing function.
- * The optional parameter list contains name, mode and types of the parameters.
- * IN represents that value will be passed from outside and OUT represents that this parameter will be used to return a value outside of the procedure. The function must contain a return statement.
- * RETURN clause specifies that data type you are going to return from the function.
- * Function_body contains the executable part.
- * The AS keyword is used instead of the IS keyword for creating a standalone function.

Example 1:

```
create or replace function adder(n1 in number, n2 in number)
return number
n3 number;
begin
n3 := n1 + n2;
return n3;
end;
DECLARE
 n3 number(2);
BEGIN
 n3 := adder(11,22);
 dbms_output_line('Addition is: ' || n3);
END;
Example 2:
create or replace function totalCoursesDuration
return number
courseDuration number;
begin
Select sum(COURSE_HOURS) into courseDuration from courses_tbl;
return courseDuration;
end;
DECLARE
 n3 number;
BEGIN
 n3 := totalCoursesDuration();
 dbms output.put line('Total Duration of courses is: ' || n3);
END;
```

Deleting PL/SQL Functions:

If you want to remove your created function from the database, you should use the following syntax.

Syntax:

DROP FUNCTION function_name;

PL/SQL Functions MCQs:

- 1. What is TRUE about PL/SQL functionalities?
 - 1. Conditions and loops are fundamental elements of procedural languages like PL/SQL.
 - 2. Various types and variables can be declared, as can procedures and functions, as well as types and variables of those types.
 - 3. Arrays can be used with it as well as handling exceptions (runtime errors).
 - 4. All of the above

2. AS Keyword is used in the PL/SQL function in order to create a –
 Identity Function Quadratic Function One to One Function Standalone Function
3. Which of the following is NOT present in the syntax of PL/SQL function?
 Function_name [OR REPLACE] Optional Parameter List None of the above
4. The call function returns program control to the after successful completion of the defined task.
 Main Table Main Database Main Row Main Program
5. It is called when the subprogram calls itself and is the process.
 Recursion, Recursive Call Recursive Call, Recursion Recursive Name, Recursive Call Recursive Call, Recursive Nam