

A function that is stored in the database is much like a procedure, in that it is a named PL/SQL block that can take parameters and be invoked.

#### **Creating Functions**

Functions are another type of stored code and are very similar to procedures. The significant difference between the two is that a function is a PL/SQL block that returns a single value. Functions can accept one, many, or no parameters, but they must have a return clause in their execution section The data type of the return value must be declared in the header of the function. A function is not a stand-alone executable in the same way that a procedure is; that is, a function must always be used in some context

#### **Creating Stored Functions**

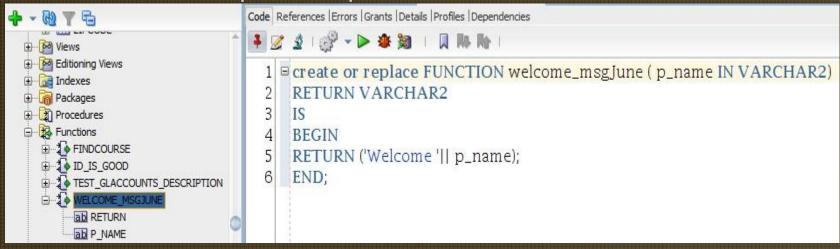
The syntax for creating a function is as follows:

```
CREATE [OR REPLACE] FUNCTION function_name
  (parameter list)
   RETURN datatype
IS
BEGIN
   <body>
   RETURN (return_value);
END;
```

The function does not necessarily have any parameters, but it must have a RETURN value declared in the header, and it must return values for all of the possible execution streams

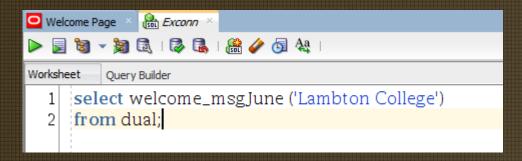


#### Lets consider a simple example

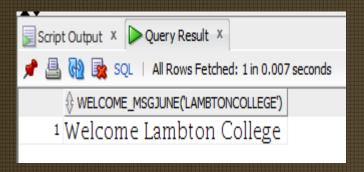


## Now execute the code using following method (Method 1)

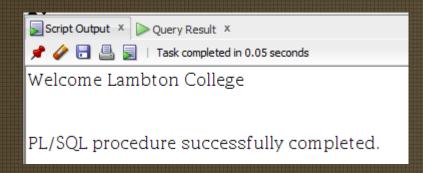
Now execute the code using second method (Method 2)



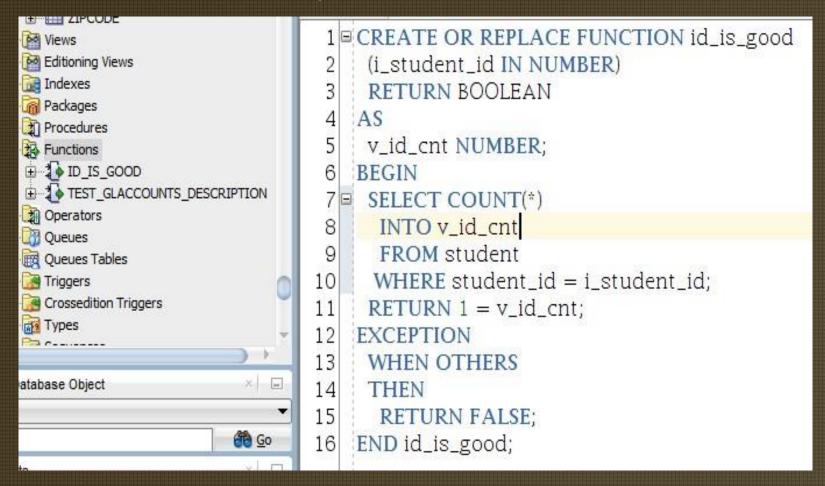
# Following is the output : Second Method :



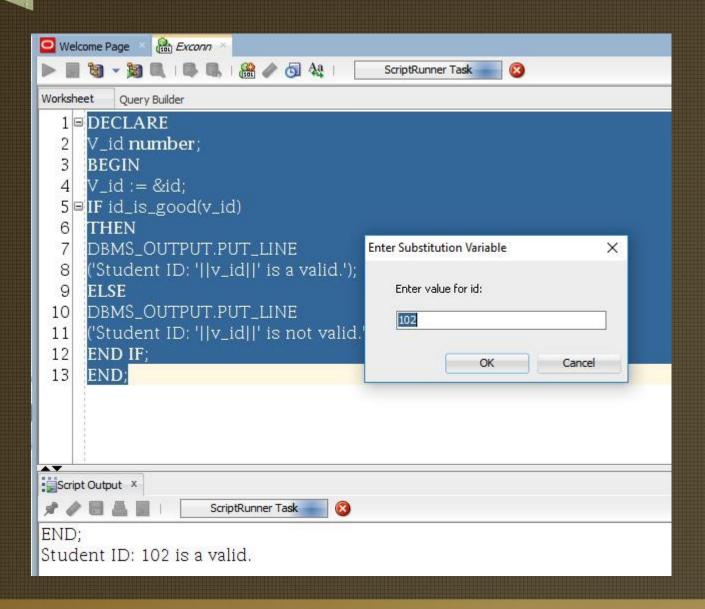
#### First Method



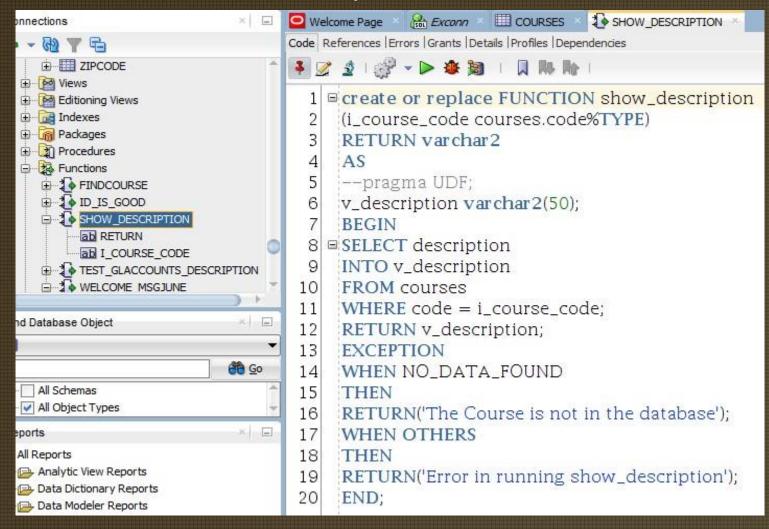
Lets consider another example makes use of the function.



Explain line number 11 in class



Lets consider one more example of functions.



## Following is the output:

