3. What is the difference between procedure and function?

Stored Procedures are pre-compiled objects which are compiled for the first time and its compiled format is saved, which executes (compiled code) whenever it is called.

A function is compiled and executed every time whenever it is called. A function must return a value and cannot modify the data received as parameters.

1. The function must return a value but in stored procedure it is optional. Even a procedure can return zero or n values.
2. Functions can have only input parameters for it whereas Procedures can have input or output parameters.
3. Functions can be called from Procedure whereas Procedures cannot be called from a Function.
4. The procedure allows SELECT as well as DML(INSERT/UPDATE/DELETE) statement in it whereas Function allows only SELECT statement in it.
5. Procedures cannot be utilized in a SELECT statement whereas Function can be embedded in a SELECT statement.
6. Stored Procedures cannot be used in the SQL statements anywhere in the WHERE/HAVING/SELECT section whereas Function can be.
7. We can use Transactions in Procedure whereas we can't use Transactions in Function.