**Global temporary tables are visible** to all the connections of the sql server, and are only destroyed when the last connection referencing the table is closed.  
  
**Multiple users, across multiple connections** can have local temporary tables with the same name, but, a global temporary table name has to be unique, and if you inspect the name of the global temp table, in the object explorer, there will be no random numbers suffixed at the end of the table name.  
  
**Difference Between Local and Global Temporary Tables:**  
1. Local Temp tables are prefixed with single pound (#) symbol, where as gloabl temp tables are prefixed with 2 pound (##) symbols.  
  
2. SQL Server appends some random numbers at the end of the local temp table name, where this is not done for global temp table names.  
  
3. Local temporary tables are only visible to that session of the SQL Server which has created it, where as Global temporary tables are visible to all the SQL server sessions  
  
4. Local temporary tables are automatically dropped, when the session that created the temporary tables is closed, where as Global temporary tables are destroyed when the last connection that is referencing the global temp table is closed.