1. declare local variable.

declare @total\_counts numeric

select @total\_counts = sum(a.num) from ...

2. nested select query

select a.~, a.~ from (select...from...) as a

3. "with" cte sentence

4.

1. /\* Count Number Of Tables In A Database \*/
2. SELECT COUNT(\*) AS TABLE\_COUNT FROM INFORMATION\_SCHEMA.TABLES WHERE TABLE\_TYPE='BASE TABLE'
4. /\* Count Number Of Views In A Database \*/
5. SELECT COUNT(\*) AS VIEW\_COUNT FROM INFORMATION\_SCHEMA.VIEWS
7. /\* Count Number Of Stored Procedures In A Database \*/
8. SELECT COUNT(\*) AS PROCEDURE\_COUNT FROM INFORMATION\_SCHEMA.ROUTINES WHERE ROUTINE\_TYPE = 'PROCEDURE'
10. /\* Count Number Of Functions In A Database \*/
11. SELECT COUNT(\*) AS FUNCTION\_COUNT FROM INFORMATION\_SCHEMA.ROUTINES WHERE ROUTINE\_TYPE = 'FUNCTION'

43. Confirm the instance of the SQL Server Database Engine is installed and running.  
Logon to the computer hosting the instance of SQL Server.  
On the Start menu, point to All Programs, point to Microsoft SQL Server 2008 R2, point toConfiguration Tools, and then click SQL Server Configuration Manager.  
Using Configuration Manager, in the left pane select SQL Server Services. In the right-pane confirm that the instance of the Database Engine is present and running.

44. SQL server is totally able to import .csv file without some non-sense read bulk technique! Just use the import wizard and choose flat data source!

45. Steps to connect R to SQl server:  
1. Go to Administrative Tools  
2. Open Data Source(ODBC)  
3. Under User DSN tab, click Add.  
4. Select a driver for which you want to set up a data source. Normally just click ODBC Driver 11 for SQL Server.  
5. Input the name like eventClustering, and select which SQL Server do you want to connect to. For me it's RSFLDT31\SQL2012.  
6. Then go back to Rstudio and you can now just do something like myconnection=odbcConnect("eventClustering") and sqlQuery(myconnection, "select top 100 \* from eventClustering.dbo.Flood order by Area"), or you can fetch the entire table to Rstudio as a data frame.

7. When using sqlQuery, it's not R that is computing, but the SQL driver or something..Good, but consuming memory like crazy.

46. Cross-join: Using the “FROM Table1, Table2” Syntax.