

SQL: How to get the total number of rows in each table

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Yesterday a person asked on the forums on how to get the row count of all the tables in the database. I decided to write a blog on the solution which I gave to him. In order to accomplish it I have used "sp_msforeachtable" stored procedure. Let me give some brief info regarding that stored procedure.

"sp_msforeachtable" allows you to easily process a particular script against every table in a database. The "sp_MSforeachtable" stored procedure comes with SQL Server, but it is not documented in Books Online. This stored procedure exists in the "master" database and is used to process a single T-SQL command or a number of different T-SQL commands against every table in a given database.

Below is the sample script to get total number of rows. I did it for "AdventureWorks" database:

```
DECLARE @Temp TABLE
(
    [TABLE_NAME] VARCHAR(80) ,
    [NO_OF_ROWS] BIGINT
)

INSERT INTO @Temp
EXEC sp_MSForEachTable 'SELECT ''?' AS [TABLE_NAME],COUNT(*) AS [NO_OF_ROWS] FROM ?'

SELECT *
FROM @Temp
```

Below is the output:

TABLE_NAME	NO_OF_ROWS
[Production].[ProductProductPhoto]	504
[Sales].[StoreContact]	753
[Person].[Address]	19614
[Production].[ProductReview]	4
[Production].[TransactionHistory]	113443
[Person].[AddressType]	6
[Production].[ProductSubcategory]	37
[dbo].[AWBuildVersion]	1
[Production].[TransactionHistoryArchive]	89253
[Purchasing].[ProductVendor]	406
[Production].[BillOfMaterials]	2679
[Production].[UnitMeasure]	38
[Purchasing].[Vendor]	104
[Purchasing].[PurchaseOrderDetail]	8788
[Person].[Contact]	19972
[Purchasing].[VendorAddress]	104
[Purchasing].[VendorContact]	156
[Purchasing].[PurchaseOrderHeader]	4000
[Sales].[ContactCreditCard]	19118
[Production].[WorkOrder]	72591

[Person].[ContactType]	20
[Sales].[CountryRegionCurrency]	109
[Production].[WorkOrderRouting]	67131
[Person].[CountryRegion]	238
[Sales].[CreditCard]	19118
[Production].[Culture]	8
[Sales].[Currency]	105
[Sales].[SalesOrderDetail]	121317
[Sales].[CurrencyRate]	13532
[Sales].[Customer]	19185
[Sales].[SalesOrderHeader]	31465
[Sales].[CustomerAddress]	19220
[HumanResources].[Department]	16
[Production].[Document]	9
[HumanResources].[Employee]	290
[dbo].[Testtable1]	504
[dbo].[Testtable2]	113443
[Sales].[SalesOrderHeaderSalesReason]	27647
[Sales].[SalesPerson]	17
[HumanResources].[EmployeeAddress]	290
[HumanResources].[EmployeeDepartmentHistory]	296
[HumanResources].[EmployeePayHistory]	316
[Sales].[SalesPersonQuotaHistory]	163
[Production].[Illustration]	5
[Sales].[SalesReason]	10
[Sales].[Individual]	18484
[Sales].[SalesTaxRate]	29
[HumanResources].[JobCandidate]	13
[Production].[Location]	14
[Sales].[SalesTerritory]	10
[Production].[Product]	504
[Sales].[SalesTerritoryHistory]	17
[Production].[ScrapReason]	16
[HumanResources].[Shift]	3
[Production].[ProductCategory]	4
[Purchasing].[ShipMethod]	5
[Production].[ProductCostHistory]	395
[Production].[ProductDescription]	762
[Sales].[ShoppingCartItem]	3
[Production].[ProductDocument]	32
[Production].[ProductInventory]	1069
[Sales].[SpecialOffer]	16
[Production].[ProductListPriceHistory]	395
[Sales].[SpecialOfferProduct]	538
[Production].[ProductModel]	128
[Person].[StateProvince]	181
[Production].[ProductModelIllustration]	7
[dbo].[DatabaseLog]	451
[Production].[ProductModelProductDescriptionCulture]	762
[dbo].[ErrorLog]	0
[Sales].[Store]	701
[Production].[ProductPhoto]	101

Do let me know your feedback, comments.

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