

SSAS Usage Totals

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The **SSAS Usage Totals** tab provides information that can be used to determine what responses to take based on activity levels.

Multidimensional Instances

Database	Cube	Measure Group	Request Granularity	Duration L	Queries	Non-cache Ops	Cache Ops	Non-cache Ops %
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	2.215	0	18,247		
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	41,291	25%	38,651	2,640	25%
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	25,097	25%	24,446	651	25%
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	21,102	25%	20,122	980	25%
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	11,125	14%	10,662	463	14%
Adventure Works DW 2008 SE	Adventure Works DW	Fact Internet Sales	[Sales].[Sales]	35,766	13%	35,274	492	13%

For **Multidimensional** instances, the information is divided into three different groups:

Tab	Description
Attributes	Use the Attributes tab to view which attribute combinations are hit the most to determine if creating an aggregation would improve performance. Expand a command to see the different queries, and to display more detailed information for each query.
Aggregations	Use the Aggregations tab to view the aggregations that are being used. Expand an aggregation to see text data for the queries.
Partitions	Use the Partitions tab to view the partitions that are being read the most.

Note: If there are aggregations and partitions that don't display in these tabs, it's possible they aren't being used.

Tabular Instances

The screenshot shows the SSAS Usage Totals interface with the 'Object Memory Usage' tab selected. The interface includes a top navigation bar with categories like Dashboard, Processes, Disk Activity, and SSAS Usage Totals. Below the navigation bar, there are sections for 'SQL Servers', 'Databases', 'Cubes', and 'Measure Groups'. The main area displays a table of memory usage for various objects, including 'All Internet Sales Tabular Model' and 'All Internet Sales Tabular Model' with columns for Database, Table, Column, Memory Used, and Time Created.

Database	Table	Column	Memory Used (L, W, Y)	Data [MB]	Dictionary [MB]	Hierarchy [MB]	Row Count	Cardinality	Time Created
AdventureWorks	Customer	CustomerId	0.07	0.04	0.09	0.14	18,484	18,484	2010-02-07 14:10:02-487
AdventureWorks	Customer	CustomerKey	0.75	0.04	0.37	0.14	18,484	18,484	2010-02-07 14:10:02-487
AdventureWorks	Product	LargePhoto	0.65	0.00	0.65	0.00	606	42	2010-09-10 10:33:44-397
AdventureWorks	Customer	CustomerHomeAddress	0.64	0.04	0.47	0.14	18,484	18,484	2010-09-10 10:33:44-397
AdventureWorks	Customer	AddressLine1	0.62	0.04	0.49	0.10	18,484	12,797	2010-09-10 10:33:44-397
AdventureWorks	Customer	Phone	0.34	0.04	0.24	0.07	18,484	8,890	2010-09-10 10:33:44-397
AdventureWorks	Date	FullDateAlternateKey	0.21	0.01	0.18	0.03	3,652	3,652	2010-09-10 10:33:44-397
AdventureWorks	Customer	BirthDate	0.00	0.04	0.00	0.02	18,484	6,170	2010-09-10 10:33:44-397
AdventureWorks	Customer	FirstName	0.06	0.02	0.03	0.01	18,484	470	2010-09-10 10:33:44-397
AdventureWorks	Customer	LastName	0.05	0.02	0.02	0.00	18,484	375	2010-09-10 10:33:44-397
AdventureWorks	Geography	City	0.04	0.00	0.03	0.00	653	362	2010-09-10 10:33:44-397
AdventureWorks	Geography	PostalCode	0.03	0.00	0.03	0.00	653	635	2010-09-10 10:33:44-397
AdventureWorks	Product	ProductAlternateKey	0.03	0.00	0.03	0.00	606	504	2010-09-10 10:33:44-397
AdventureWorks	Customer	Demographics	0.03	0.00	0.00	0.00	18,484	1,124	2010-09-10 10:33:44-397
AdventureWorks	Customer	Geography	0.03	0.00	0.01	0.00	18,484	398	2010-09-10 10:33:44-397
AdventureWorks	Product	EnglishProductName	0.03	0.00	0.03	0.00	606	604	2010-09-10 10:33:44-397
AdventureWorks	Customer	MiddleName	0.03	0.01	0.02	0.00	18,484	43	2010-09-10 10:33:44-397
AdventureWorks	Geography	GeographyName	0.02	0.00	0.02	0.01	653	655	2010-09-10 10:33:44-397
AdventureWorks	Product	ProductKey	0.02	0.00	0.02	0.00	606	606	2010-09-10 10:33:44-397
AdventureWorks	Product	EnglishDescription	0.02	0.00	0.02	0.00	606	114	2010-09-10 10:33:44-397
AdventureWorks	Product	ModelName	0.02	0.00	0.02	0.00	606	109	2010-09-10 10:33:44-397
AdventureWorks	Customer	AddressLine2	0.02	0.00	0.02	0.00	18,484	388	2010-09-10 10:33:44-397
AdventureWorks	Customer	CompanyName	0.02	0.00	0.02	0.00	18,484	5	2010-09-10 10:33:44-397
AdventureWorks	Customer	EnglishOccupation	0.02	0.00	0.02	0.00	18,484	5	2010-09-10 10:33:44-397
AdventureWorks	Geography	GeographyCode	0.02	0.00	0.02	0.00	653	71	2010-09-10 10:33:44-397
AdventureWorks	Customer	EnglishEducation	0.02	0.00	0.02	0.00	18,484	5	2010-09-10 10:33:44-397
AdventureWorks	Customer	HouseOwnerFlag	0.02	0.00	0.02	0.00	18,484	2	2010-09-10 10:33:44-397
AdventureWorks	Customer	MaritalStatus	0.02	0.00	0.02	0.00	18,484	2	2010-09-10 10:33:44-397
AdventureWorks	Customer	Gender	0.02	0.00	0.02	0.00	18,484	2	2010-09-10 10:33:44-397
AdventureWorks	Date	CalendarColumn1	0.02	0.00	0.02	0.00	3,652	12	2010-09-10 10:33:44-397
AdventureWorks	Date	EnglishMonthName	0.02	0.00	0.02	0.00	3,652	12	2010-09-10 10:33:44-397
AdventureWorks	Geography	GeographyCode	0.02	0.00	0.02	0.00	653	71	2010-09-10 10:33:44-397
AdventureWorks	Date	CalendarColumns1_1	0.02	0.00	0.02	0.00	3,652	7	2010-09-10 10:33:44-397
AdventureWorks	Product	CalendarColumns1	0.01	0.00	0.01	0.00	406	13	2010-09-10 10:33:44-397

For **Tabular** instances, the only tab that displays in **SSAS Usage Totals** is the **Object Memory Usage** tab. Use the **Object Memory Usage** tab to view the objects that are using the most memory in your instance. Expand objects to drill down and display more detailed information about the memory usage.

Filter Pane

The screenshot shows the Filter Pane interface with four filter categories: SQL Servers, Databases, Cubes, and Measure Groups. Each category has a list of items with a selection icon (a square with a plus sign) to its left. The 'SQL Servers' list includes 'AdventureWorks' and 'AdventureWorksDW'. The 'Databases' list includes 'AdventureWorksDW_2008_SS' and 'AdventureWorksDW'. The 'Cubes' list includes 'Adventure Works DW'. The 'Measure Groups' list includes 'Fact Internet Sales 1' and 'Fact Header Sales'.

The **Filter** pane provides a series of filters and controls for specifying which records to display. The following filter categories are available:

- SQL Servers
- Databases
- Cubes
- Measure Groups

Select the desired filter, then select the Refresh button or press **F5** to apply the filter. Select a combination of items in any of the lists to set the filters. Use shift-click or ctrl-click to select more than one item in a list. Depending on the length of the displayed interval, you may have a lot of data to work with. The **Show Top** setting controls how many of the rows are retrieved.