Homework Assignment 5

IT 532, Fall 2018

Due Date – Nov 7

1. What is actions in SSAS? What are three types of actions in SSAS? What are the differences between them?

Answer: We can treat actions in SSAS as ‘predefined command’ in the SSAS server, These actions will be stored in MDX format and can be used by users directly.

There are 3 kinds of actions, the first one is ‘standard action’,we can use it to return action element (URL, HTML, DataSet, RowSet, and other elements) that is associated with the selected section ;the second one is drillthrough action, we can define it in specific measures and dimensions, then, we can use it to get a set of rows if we want to determine the detail situation; the third one is report action, it can connect to report server and return the specific reports in relation to some cube.

1. What is factless fact table? Why we need it?

Answer: a factless fact table is a fact table doesn’t have any measure attribute on it, it only has the dimension keys to relate to dimension tables. We can use it to interact dimension tables in the star schema or snowflake schema.

1. In SSAS, What is Calculated Member? Based on exercise 5, create two new calculated memebers: total profit and Gross Profit Margin  
      GPM = (Sales Amount -  Total Product Cost) /  Sales Amount   
   Calculate total profit and gpm of each country region, create a column chart to show your result.

Answer: Calculated Member is a member that is defined based on a combination of cube data, arithmetic operators, numbers, and functions, compare to named calculation, the Calculated Member is based on the cube result.

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| **Row Labels** | **Internet GPM** | **Total profit** |
| Australia | 40.68% | 2960975.01 |
| Canada | 41.96% | 671693.9097 |
| France | 41.08% | 874743.2998 |
| Germany | 41.02% | 955825.7736 |
| United Kingdom | 41.00% | 1119153.796 |
| United States | 41.54% | 3149797.626 |
| **Grand Total** | **41.15%** | **9732189.415** |