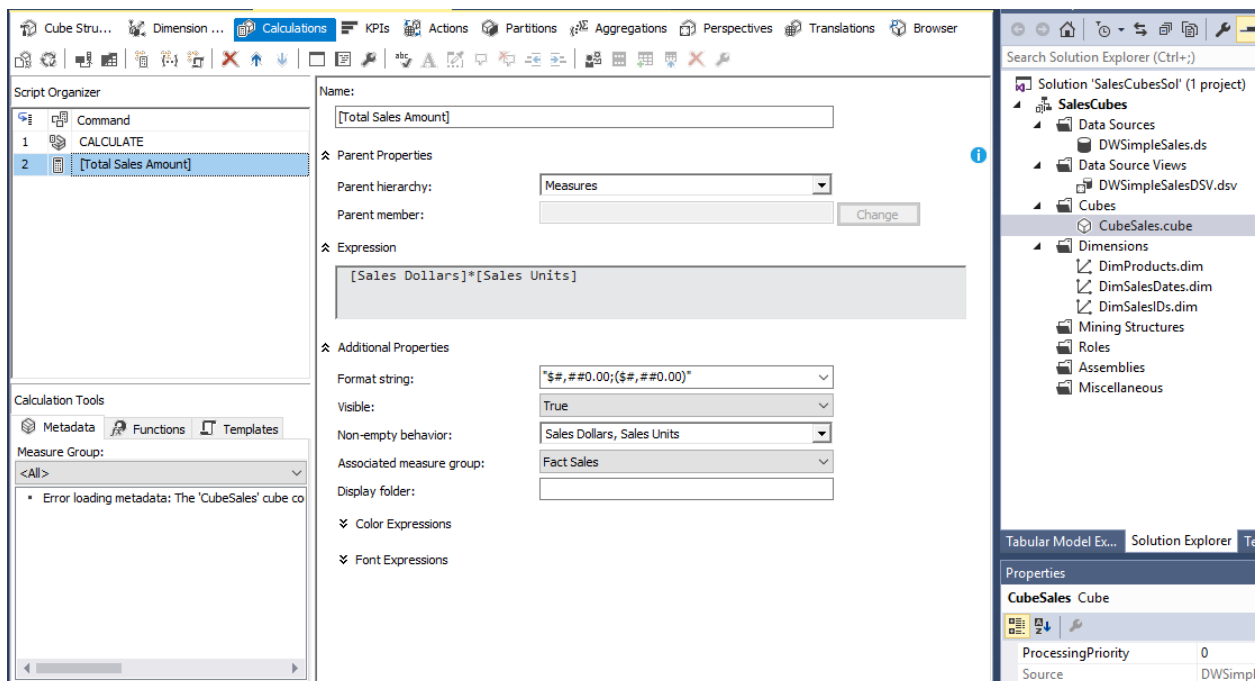Name: Chris Singleton

Derived Measure Vs Calculated Measure

10) Create a Word document that outlines how to create a Derived Measure and a Calculated Measure, and then describes the difference between the two. Include screen shots of your project, please. To help you understand what this would look like. I have included an example from a previous student (with most of the text removed of course!)

Calculated Measure: A calculated measure is part of a measure group like any other measure group but instead of coming from the underlying data source, the calculated measure uses an expression. The calculated measure is being calculated during runtime. Calculated measures are managed on the calculation tab of the cube designer, not in the data source view.
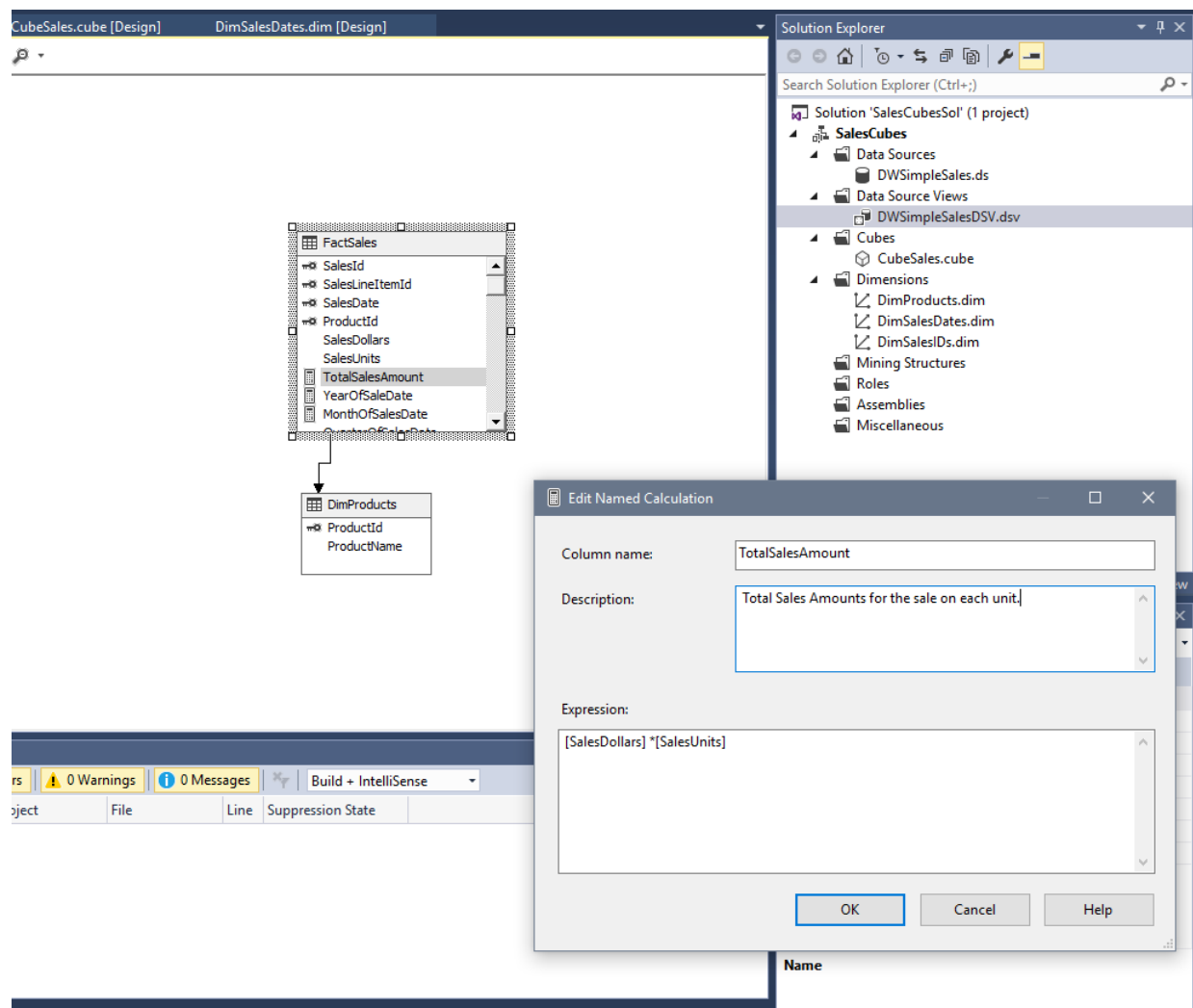
Calculated Measure (Below):

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A Derived Measure is being calculated when the cube is processed and is based through the data

source view as a calculated field. With a derived measure the values are stored in the cube

(calculated measures do not store the values, but are calculated directly using a Multi-

Dimensional Modeling expression (MDX) after aggregations are created). Derived measures are

calculated before the aggregation(s) are created using the data source view. Derived named

calculations can also be applied directly to dimensions in the data source view.

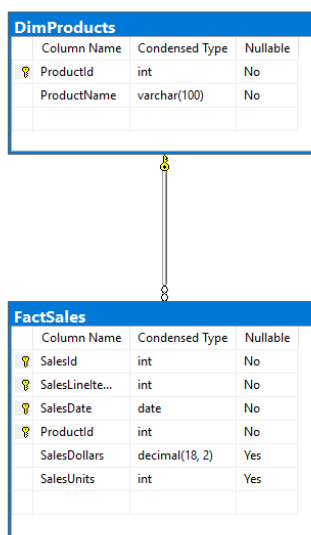Derived Measure "*Named Calculation*" field (Shown Below):

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Other Important Differences:

An important note to remember is that derived measures use the data source view in creating a

new named calculation with measures that already exist, are typically referred to as *"named*

calculations" in the data source view and only calculate during processing of the cube.

Calculated measures are created using the calculations tab in the cube designer and are calculated

using an MDX expression during runtime, which means that calculated measures can directly

create performance issues on the cube during analysis and reporting.

Database Diagram (Shown Below): Added foreign Key (`fk_DimProducts_ProductID`) In the
FactSales table.

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Measure Calculation: