

Overview of the SQL Server Data Warehousing / Business Intelligence Toolset

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Constructing a DW/BI Solution

- Create the Data Warehouse
- ETL - Extract – Transform - Load
- Analytics - Aggregation – Trending - Correlations
- Reporting

Our goal

- Adventure Works Lite Bike Company, a subsidiary of Adventure Works.
- Our sales department needs a new report.
- Need to see sales based on the Line Total value in the sales tables.
- Drill down by Product Category, Subcategory, and Product
- Drill down by Country, State, City, Company

The Microsoft Toolset

- **Construct: Visual Studio 2010 Database Project**
- **ETL: SSIS – SQL Server Integration Services**
- **Analyze: SSAS – SQL Server Analysis Services**
- **Report: SSRS – SQL Server Reporting Services**
- **SSMS – SQL Server Management Studio**

The end result

“You’ve got to be very careful if you don’t know where you’re going, because you might not get there.”

-- Yogi Berra

Source Database

SQL Server Management Studio

Creating the Data Warehouse

Visual Studio 2010 Database Project

ETL

SQL Server Integration Services

Analytics

SQL Server Analysis Services

Reporting

SQL Server Reporting Services

Summary

- **Creating a data warehouse**
 - Visual Studio 2010 Database Project
- **ETL**
 - SQL Server Integration Services
- **Analysis**
 - SQL Server Analysis Services
- **Reporting**
 - SQL Server Reporting Services

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