

Business Intelligence and Reporting

2.F BI AND REPORTING – DW, SSIS

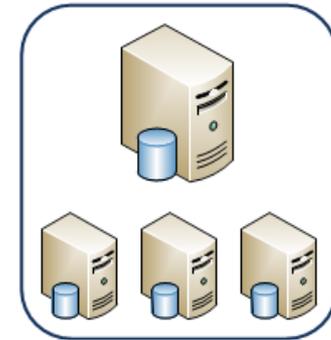
Data Warehouse

- Database designed for fast retrieval
- Stored in SQL Server database
- Will contain retail, clinic, and transaction data

SQL Server Integration Services (SSIS)

- Extract, Transform, and Load (ETL) data into the data warehouse

Data Warehouse/
Data Marts



SSIS

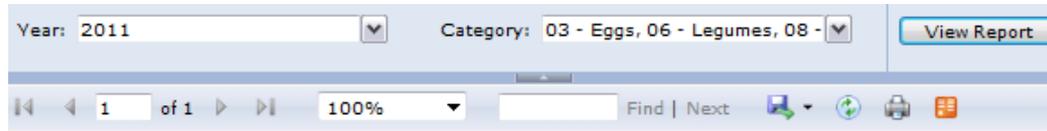


2.F BI AND REPORTING – SSRS

SSRS



SQL Server Reporting Services (SSRS)



Purchase Dollars By Category - 2011

Category	Subcategory	Purchase Dollars
<input checked="" type="checkbox"/> Eggs	Total	\$688,678.30
<input checked="" type="checkbox"/> Legumes	Peanut Butter	\$497,983.65
	Dry or Can Beans/Peas	\$198,800.81
	Canned Baked Beans	\$1.65
	Total	\$696,786.11
<input checked="" type="checkbox"/> Fish	Light tuna	\$7,547.71
	Salmon	\$1,339.78
	Sardines	\$184.86
	Total	\$9,072.35
<input checked="" type="checkbox"/> Infant Formula	Total	\$4,803,354.23
<input checked="" type="checkbox"/> Milk Whole	Total	\$992,416.19
<input checked="" type="checkbox"/> Milk Low fat	Total	\$3,390,897.96
Total		\$10,581,205.14

— Report Types

- Static Reports
- Parameterized Reports
- Drill through / drill down
- Ad Hoc Reports
 - Report Builder

2.F BI AND REPORTING – REPORT BUILDER

The screenshot displays the Microsoft SQL Server Report Builder interface. The title bar reads "PurchaseDollarsByCategory - Microsoft SQL Server Report Builder". The ribbon includes "Home", "Insert", and "View" tabs. The "Home" tab is active, showing groups for Views, Clipboard, Font, Paragraph, Border, Number, and Layout. The "Report Data" pane on the left shows a tree view with folders for Built-in Fields, Parameters (containing DateYear), Images, Data Sources, WIC, and Datasets (containing PurchaseDollarsByCategory). The main report area shows a table with the following structure:

Category	Subcategory	Purchase Dollars
[Category]	[Subcategory]	[Sum(Purchase_Dollars)]
	Total	[Sum(Purchase_Dollars)]
Total		[Sum(Purchase_Dollars)]

At the bottom right of the report area, there is a field for execution time: [&ExecutionTime]. The status bar at the bottom shows "Row Groups" and "Column Groups".

2.F BI AND REPORTING – SSRS *CONTINUED*

SQL Server Reporting Services (SSRS) *continued*

- Data from any source
 - Operational Data Store
 - Reports requiring real-time data
 - Data warehouse
 - Large reports that don't require real-time data, for example monthly or annual reports
 - Analytical reports
 - Other data sources
- Role-Based Security

SSRS



2.F BI AND REPORTING – SSAS

SQL Server Analysis Services (SSAS)

- Lightning fast data analysis
- Role-Based Security
- Example uses
 - Cost containment
 - Vendor fraud
 - Product usage

