



INFO 7290: Data Warehousing & Business Intelligence

Fall 2015

Course Overview

9/9-10/2015



Northeastern University

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INFO 7290: DW & BI

Development Environment (Windows-based)

Software Installations – Due for Week 2 of Class

Due	Software	Installation Download	Installation Tutorial
9/16	Microsoft SQL Server 2014 Developer Edition (64-bit) <ul style="list-style-type: none"> Microsoft SQL Server Integration Services (SSIS) Microsoft SQL Server Analysis Services (SSAS) 	NEU CEO (Microsoft) DreamSpark (read note below)	installing-sql-server-2014-step-by-step-tutorial It's a good practice to go with default instance instead of a named instance. (Step 8 of above link)
Note: SQL Server when downloaded from DreamSpark is in form of an ISO image file. Use software such as Virtual CloneDrive to run the ISO Image file.			
9/16	Adventure Works 2014 Sample Databases <ul style="list-style-type: none"> Adventure Works 2014 Full Database Backup.zip Adventure Works DW 2014 Full Database Backup.zip 	Codeplex	Install databases from backups <ul style="list-style-type: none"> Readme for Adventure Works 2014 Sample Databases.docx How to install Adventure Works 2014 Sample Databases.pdf
9/16	Microsoft Visual Studio Professional 2013 32-bit	NEU CEO (Microsoft) DreamSpark	Installing Visual Studio
9/16	Microsoft SQL Server Data Tools - Business Intelligence for Visual Studio 2013	Microsoft Download	Install SSDT
9/16	MySQL Installer for Windows <ul style="list-style-type: none"> MySQL Server MySQL Connectors MySQL Workbench and sample models Sample Databases 	<ul style="list-style-type: none"> MySQL for Excel MySQL Notifier MySQL for Visual Studio Documentation 	MySQL Installer Documentation

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Software Installations – Follow-On Installations

Due	Software	Installation Download	Installation Tutorial
	Microsoft Excel 2013 (64-bit)	NEU website	
	Power Map Preview for Excel 2013	Microsoft Download	
	Microsoft Power Query for Excel	Microsoft Download	
	Microsoft Contoso BI Demo Dataset for Retail Industry	Microsoft Download	
	Talend Open Studio for Integration	<ul style="list-style-type: none">• Vendor website• License provided by vendor for class	
	QlikTech: QlikView & Qlik Sense	<ul style="list-style-type: none">• Vendor website• License provided by vendor for class	
	Tableau	<ul style="list-style-type: none">• Vendor website• License provided by vendor for class	

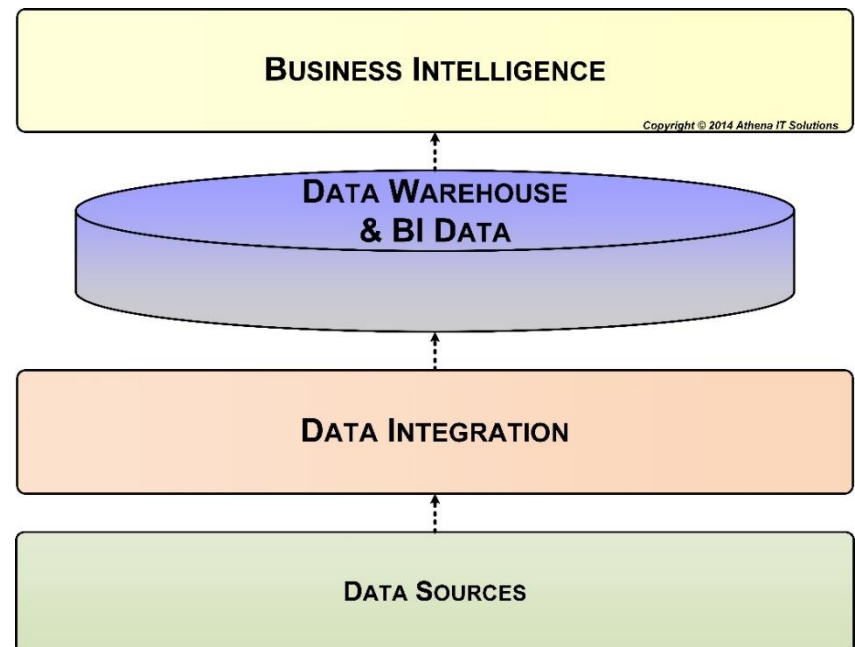
- Setup development environment on your notebook
 - Windows-based OS with 64-bit
 - Memory: 8-16Gb memory
 - Microsoft Office 2013
 - Can use virtualization disk to host development environment (SLOW!)
 - VMware, VirtualBox, Parallel

- Software Installations:

- Database
- Data Integration
- BI

- Samples

- Databases
- Demos & Tutorials



- Databases

- ✓ Microsoft SQL Server 2014
- ✓ MySQL



- Data Integration

- ✓ Talend
- ✓ SQL Server Integration Services (SSIS)



- Business Intelligence

- ✓ Tableau
- ✓ QlikView & Qlik Sense
- ✓ Microsoft BI (PowerPivot,...)



- ✓ Data Modeling



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Development Environment (Windows-based)

Software	Company	Required Software	Software Source	License
Database	• Microsoft	• Microsoft SQL Server 2014 Developer Edition	• NEU Microsoft DreamSpark	• NEU Microsoft DreamSpark
Database	• Oracle	• MySQL		
Data Integration	• Talend	• Talend Open Studio for Data Integration	• Vendor website	• License provided by vendor for class
Data Integration	• Microsoft	• Microsoft SQL Server Integration Services (SSIS) – installed as part of Microsoft SQL Server 2014		
BI	• QlikTech	• Qlik View	• Vendor website	• License provided by vendor for class
BI	• QlikTech	• QlikSense	• Vendor website	• License provided by vendor for class
BI	• Tableau	• Tableau Desktop	• Vendor website	• License provided by vendor for class
BI	• Microsoft	• Microsoft Excel 2013 64-bit, PowerPivot	• NEU Microsoft DreamSpark	• NEU Microsoft DreamSpark
BI	• Microsoft	• PowerMap	• Microsoft website	
BI	• Microsoft	• PowerQuery		
BI	• Microsoft	• Microsoft SQL Server Analysis Services (SSAS) – installed as part of Microsoft SQL Server 2014		
DB Samples	• Microsoft	• AdventureWorks Databases	• Microsoft website	
DB Samples	• Microsoft	• Microsoft Contoso Retail Database	• Microsoft website	
DB Samples	• Oracle	• TBD		