

		•	BUSINESS ACADEMY		
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ecture P	lan				
Date	Week	Learning goal	Content	Preparation	
2.9.	36	Refresh	We work with central	[T-SQL2012] ch 1-2	
(3.9.)		knowledge	subjects within data	[MSDN1]	
		about data mod-	modelling and SQL.		
		elling and SQL	Introduction to Mi-	Pluralsight:	
			crosoft SQL Server.	If you have little experience with SQL, you need to watch this before the first	
				class:	
				[INTROSERVER] (2h 9m)	
9.9.	37	Complex data	Data modeling: nor-	[MSDN1]	
(10.9.)		modelling	malization, participa-	r= co. 20121 2	
		Advanced SQL	tion and constraints. SQL : Embedded SE-	[T-SQL2012] ch 3 [VIEW]	
			LECTs, Views	[VILW]	
			LLC13, TICHIS	Pluralsight:	
				If you have little experience with nor-	
				malization:	
				[DATAMODEL]	
				- Clones! R[Deplicants! The Importance of Normalization (26	
				m)	
16.9.	38	Advanced SQL	Stored Procedures and	[T-SQL2012] pages 362-370	
(17.9.)			Functions	[STORED]	
23.9.	39	Advanced SQL	Transactions and Trig-	[DUMMY] [T-SQL2012] Ch. 9	
(24.9.)	33	/tavarreed 5QE	gers	[TRAN]	
30.9.	40	Advanced SQL	Mandatory Assignment	[SIMPLY]	
(31.9.)			1	Uploading the video-part of Manda-	
7.10.	41	Advanced SQL	Video feedback, SQL	tory Assignment 1 Mandatory Assignment 1 hand in	
(8.10)	41	Auvanced 3QL	feedback etc	9.10 at 23.59.	
14.10. (15.10)	42	Fall break			
21.10	43	Data structures	JSON format	[MONGO] pages 7-11 and 16-20	
(22.10)			-	with focus on what JSON can be used	
				for.	
				Dismalajaht	
				Pluralsight: [GOOGLEAPI]	
				(1h 55m)	
28.10	44	Data structures	JSON format		
(29.10)					
4.11. (5.11)	45	Data structures	Introduction to the XML	Mandatory Assignment 2 hand in 6.11 at 23.59	
(5.11)			family (the XML docu- ment and XSLT)	[XML]	
			mene una ASET)	[[[[]]	
				Pluralsight:	
				[XMLFUND]	
				- Following Examples	
				What is XMLXML Structure	

				 Document Type Definition and Parsed Entities Content and Markup (2h 17m)
11.11. (12.11)	46	NoSQL data- bases	MongoDB	[NOSQL] ch 2, 9, 13, 15 [MONGO] ch 1-4 MongoDB.org Pluralsight: [INTROMONGO] - Introduction - Introduction to MongoDB - The Mongo Shell - (1h 3m)
18.11. (19.11)	47	NoSQL data- bases	MongoDB	Pluralsight: [INTROMONGO] - Saving Data - Finding Documents - Indexing - (1h 24m)
25.11 (26.11)	48	Mandatory As- signment	No lecture - guidance on project available	
2.12 (3.12)	49	Mandatory As- signment	No lecture - guidance on project available	
9.12 (10.12)	50	Mandatory As- signment	No lecture - guidance on project available	
16.12 (17.12)	51	Repetition	Repetition and prepara- tion for the exam	

Literature

[T-SQL2012]: SQL Server 2012 T-SQL Fundamentals by Itzik Ben-Gan

[NOSQL]: NoSQL Distilled by Pramod Sadalage [MONGO]: MongoDB by Kristina Chodorow

Articles at Fronter:

[TRAN]: Beginning C# 2008 Databases – Transactions

[XML]: Beginning C# 2008 Databases – XML [STORED]: Beginning T-SQL – Stored Procedures

[VIEW]: Beginning T-SQL - Views

[SIMPLY]: Chapter 5-6 (GROUP BY and HAVING) Simply SQL

[DUMMY]: SQL Server 2008 for Dummies – Functions, Stored Procedures, Triggers

Videos at Pluralsight:

Note: not all of these will be on the lecture plan, and sometimes only one or two chapters from the courses will be needed. Suggestions will be added to the lecture plan approximately one-two weeks in advance.

[INTROSQL]: Introduction to SQL (3h 22m) by Jon Flanders

[INTROSERVER]: Introduction to SQL Server (2h 9m) by Dan Sullivan [HACK]: Ethical Hacking: SQL Injection (5h 25m) by Troy Hunt [WEBAPI]: Web API Design (2h 17m) by Shawn Wildermuth

[GOOGLEAPI]: Google Maps API: Get Started (1h 55m) by Mark Lewin

[XMLFUND]: XML Fundamentals (4h 51m) by Dan Sullivan [XMLSYNT]: XML Syntax Fundamentals (5h 23m) by Ken Holman

[XMLTOOLS]: XML tools by Example (54m) by Dan Sullivan

[INTRONOSQL]: <u>Understanding NoSQL</u> (2h 40m) by Andrew Brust [INTROMONGO]: <u>Introduction to MongoDB</u> (2h 27m) by Nuri Halperin [MONGOASP]: <u>Using MongoDB with ASP.NET MVC</u> (3h 12m) by Wes Higbee

[MONGOADM]: MongoDB Administration (7h 20m) by Nuri Halperin

[DATAMODEL]: Practical Data Modeling With C# and SQL Server (2h 33m) by Jason Sauer

Articles on the internet:

[MSDN1]: Tutorial: Writing Transact-SQL Statements

Supplementary:

[DDRT]: Database Design and Relational Theory