

with Adam Wilbert

Understanding Data Storage Models																							
What are databases?	X	X																					
Understanding flat file databases	X	X																					
Understanding hierarchical databases	X	X																					
Understanding relational databases	X	X																					
Exploring database fundamentals		X														X	X	X					
Calculating values		X																					



[illegible]

	Topics from MTA Exam 98-364							
	<b>Understand core database concepts</b>							
	1.1 Understand how data is stored in tables							
	1.2 Understand relational database concepts							
	1.3 Understand data manipulation language (DML)	X						
	1.4 Understand data definition language (DDL)							
	<b>Create database objects</b>							
	2.1 Choose data types							
	2.2 Understand tables and how to create them							
	2.3 Create views							
	2.4 Create stored procedures and functions							
	<b>Manipulate data</b>							
	3.1 Select data				X			
	3.2 Insert data					X		
	3.3 Updated data						X	
	3.4 Delete data						X	
	<b>Understand data storage</b>							
	4.1 Understand normalization							
	4.2 Understand primary, foreign, and composite keys							
	4.3 Understand indexes							
	<b>Administer a database</b>							
	5.1 Understand database security concepts							
	5.2 Understand database backups and restore							
<b>Understanding Data Definition Language (DDL)</b>								
Using DDL statements to create database objects				X				
Creating new database objects				X				
Choosing the active database with USE				X				
Altering existing database objects				X				
Removing objects with DROP				X				
Removing records from a table with TRUNCATE				X				
Challenge: Creating a table using DDL				X				
Solution: Creating a table using DDL				X				

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	1.3 Understand data manipulation language (DML)				2.3 Create views				3.3 Updated data				4.3 Understand indexes			
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Understanding Data Manipulation Language (DML)																
Writing commands in DML				X												
Selecting data from a table				X					X							
Inserting records into a table				X						X						
Updating data				X							X					
Deleting rows from a table				X								X				
Merging data tables				X												
Challenge: Using DML				X												
Solution: Using DML				X												

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Understanding Relational Database Concepts										
Establishing relationships										
Exploring data constraints										
Adding indexes to tables										
Following naming conventions										
Organizing the design with schemas										