Database Fundamentals: Storage



with Adam Wilbert

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	Understand core database concepts	1.1 Understand how data is stored in tables	1.2 Understand relational database concepts	1.3 Understand data manipulation language (DML)	1.4 Understand data definition language (DDL)	Create database objects	2.1 Choose data types	2.2 Understand tables and how to create them	-	2.4 Create stored procedures and functions	Manipulate data	3.1 Select data	3.2 Insert data	3.3 Updated data		Understand data storage	ation	4.2 Understand primary, toreign, and composite keys	4.3 Understand indexes	Administer a database	5.1 Understand database security concepts	5.2 Understand database backups and restore
Creating Normalized Tables																						
Reducing redundancy with normalization			X														X					
Understanding the first normal form (1NF)					╝										╝	2	X					
Understanding the second normal form (2NF)																	X					
Fixing partial dependencies																	X					
Understanding the third normal form (3NF)																	X					
Satisfying the fourth and fifth normal forms																	X					
Challenge: Normalizing a dataset																2	X					
Solution: Normalizing a dataset																2	X					

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Adding Key Fields						-															
Understanding the role of key fields			X		\neg				T								X				\prod
Creating a table's primary key in SQL Server Management Studio					╗	Ī											X		Ĭ		
Understanding composite primary keys																	X				
Creating composite primary keys																	X				
Linking tables with foreign keys																	X				
Creating a foreign key relationship in SSMS																	X				

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Indexing Records																						
Understanding clustered indexes			X																X			
Adding a clustered index																			X			
Understanding non-clustered indexes																			X			
Creating a non-clustered index in SSMS																			X			
Creating a non-clustered index using DDL																			X			
Challenge: Creating table indexes										\sqcap									Х			
Solution: Creating table indexes																			X			