Topics	Day
Basic discussion on database systems.	Day 1
Comparison between file systems and Relational data bases; OLTP vs OLAP	
Explain the Relationships in a sample DB	
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Data Definition Language (DDL)	
Data Manipulation Language (DML)	
Data Query Language (DQL)	Day 2
Data Control Language (DCL)	
Transaction Control Language (TCL)	
Creating Database	
Restore Database	
Data Types in SQL	
Introduction to basic select statement - All clause	Day 3
Where Clause	24,0
basic Operators, in , between , like	
Order of Processing of Queries	
Group By Clause, Distinct	Day 4
Having Clause	Day 4
Order by clause, Top	
Aggregate functions	Day 5
Usage of case when	
String Functions, Date Functions, Conversion Functions, FORMAT function Derived Tables	
Derived Tables	
predicates	
Between And	Day 6
In	Day o
Like	
Is Null	
Primary and Unique key, Surrogate Key, Natural Key	Day 7
Referential Keys Schemas	
Ochemas	
Simple/Inner Joins	Day 8
Left Outer	
Right Outer	
Full Join	
Cross Join	
Cross/Outer Apply	Day 9
Sub queries	
Co-related Sub Queries	
Exists Clause	

Rank, Dense Rank, Ntile, Row_Number, Top (Analytical), OVER Clause SQL 2016 Functions	
CTE, Recursive CTE	Day 10
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INSERT, DELETE, UPDATE, MERGE, Alter, TruncateDifferences Between Delete and	
Indexes	
Constraints	1
Defaults	1
Column level and table Level Constraints	Day 11
Views	-
Indexed views	1
indexed views	
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Normal Forms	
Synonyms	
Codd rules	
Stored Procedures	
In put and out put parameters	Day 12
Control statements - If, ELSE, WHILE	
Cursors	
Temporary tables - #Tables	
Table Variables	
OUTPUT clause	
Error Handling (TRYCATCH)	
- RAISERROR	
- THROW	Day 13
SP_executeSQL	Day 13
Dynamic queries	
Parameterized Dynamic queries	
SQL Injection	
Transaction Management	
Isolation Levels /ACID Properties/Dirty Reads/Phontom Reads/Dead locks	Day 14
Begin Transaction	
Commit Transaction	
Rollback Transaction	
Save Transaction	
Implicit Transactions	
Scalar valued Functions	
Table valued functions	1
Triggers, , OFFSET FETCH	5. 45
XML Operations (AUTO,EXPLICIT,RAW)	Day 15
MERGE	1
Rollup, Cube, Grouping Sets	1
Execution plans	Day 16,17
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Exercise review	Day 18
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Exercise review	Day 19
	2-, 10
SQL Profiler Usage	
Performance Monitor	Day 20
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