Topics	Date(MM/DD/YYYY)
Basic discussion on database systems.	
Comparison between file systems and Relational data bases; OLTP vs OLAP	
Explain the Relationships in a sample DB	
Data Definition Language (DDL)	
Data Manipulation Language (DML)	
Data Query Language (DQL)	
Data Control Language (DCL)	
Transaction Control Language (TCL)	
Creating Database	
Restore Database	03/07/2019
Data Types in SQL	
Introduction to basic Select statement - All clause	
Where Clause	
basic Operators, in , between , like	03/08/2019
Order of Processing of Queries	
Group By Clause, Distinct	
Having Clause	
Order by clause, Top	03/11/2019
Aggregate functions	
Usage of case when	
String Functions, Date Functions, Conversion Functions, FORMAT function	
Derived Tables	03/13/2019
Primary and Unique key, Surrogate Key, Natural Key	
Referential Keys	
Schemas	03/15/2019

Simple/Inner Joins	
Left Outer	
Right Outer	
Full Join	03/18/2019
Cross Join	
Cross/Outer Apply	
Sub queries	
Co-related Sub Queries	
Exists Clause	03/20/2019
Rank, Dense Rank, Ntile, Row_Number, Top (Analytical), OVER Clause	
SQL 2016,2017 Functions	
CTE, Recursive CTE	
INSERT, DELETE, UPDATE, MERGE, Alter,	
Truncate Differences Between Delete and Truncate	03/22/2019
Differences between belete and Truffcate	03/22/2019
Indexes	
Constraints	
Defaults	
Column level and table Level Constraints	
Views	
Indexed views	03/25/2019
Normal Forms	
Synonyms	
Codd rules	
Stored Procedures	
In put and out put parameters	
Control statements - If, ELSE, WHILE	

Cursors	
Temporary tables - #Tables	
Table Variables	03/27/2019
OUTPUT clause	
Error Handling (TRYCATCH)	
- RAISERROR	
- THROW	
SP_executeSQL	
Dynamic queries	
Parameterized Dynamic queries	
SQL Injection	03/29/2019
Transaction Management	
Isolation Levels /ACID Properties/Dirty Reads/Phontom Reads/Dead locks	
Begin Transaction	
Commit Transaction	
Rollback Transaction	
Save Transaction	
Implicit Transactions	04/01/2019
Scalar valued Functions	
Table valued functions	
Triggers, , OFFSET FETCH	
XML Operations (AUTO,EXPLICIT,RAW)	
MERGE	
Rollup, Cube, Grouping Sets	04/03/2019
Exercise review	04/04/2019
Exercise review	04/05/2019

04/08/2019