

Timings :	7.00 -8.30pm
Scheduled on :	Weekdays (from 21 Feb Onwards)
Estimated Lectures:	10 lectures (2 Weeks)
Extras:	<a href="#">How to Go through the Articles</a>

Reference Book	Fundamentals of Database Systems, S Navathe			
Topic Name	Sub-Topic Name	Lecture Number	Recordings	Reading Material
Introduction to Database Management Systems	What is data, database, information, dbms ?	Notes and Doubts	<a href="#">Zoom Rec-1</a>	<a href="#">Lecture 0</a>
	Database users: DBA, DD, EU			
	Advantages of DBMS approach over File System Approach			
	DBMS architecture: 2-tier, 3-tier architecture, n-tier architectures			
	DBMS Languages: SDL, VDL, DDL			
	Classification of DBMS's			
Data Modelling using ER	Need of data Modelling ? Various models available for modelling of data. ER Model with a sample database approach: Entities(Types, Sets), Attributes and Keys Relationship Types, Sets and Constraints	Lecture 1	<a href="#">Zoom Rec-1</a>	<a href="#">Lecture 01</a>
Relational Modelling	Relational Model Concepts: Domain, Attributes, Tuples and Relations Characteristics of Relation: Ordering of Tuple, Values and Nulls Relational Model Constraints: Domain Constraints, Other Types of Constraints Dealing with constraint violations	Lecture 2	<a href="#">Zoom Recording</a>	<a href="#">Lecture 2</a>
SQL	Schema and Catalog concept	Lecture 3	<a href="#">Zoom Recording</a>	<a href="#">Lecture3</a>
	DDL and DML Introduction			
	Attributes Data types and domains in SQL			
	Create table command in SQL	Lecture 4	<a href="#">Zoom Recording</a>	<a href="#">Lecture4</a>
	Constraints in SQL	Lecture 5	<a href="#">Zoom Recording</a>	<a href="#">Lecture5</a>
	Foreign Key Constraint			
	TEST --> Questions and Answers	QUIZ		<a href="#">DATA QUESTION &amp; ANSWER LINK</a>
	Alter Table Command	Lecture 6	<a href="#">Zoom Recording</a>	<a href="#">Lecture 6</a>
	Drop Command			
	Truncate command			
	DML Commands Introduction			
	Insert and Delete Command	Lecture 7	<a href="#">Zoom Recording</a>	<a href="#">Lecture 7</a>
	Update Command			
	Select from where structure in SQL	Lecture 8	<a href="#">Zoom Recording</a>	
	Practice Select from where set - 1	Lecture 9	<a href="#">Zoom Recording</a>	<a href="#">Lecture 8 and 9</a>
	Practice Select from where set - 2	Lecture 10	<a href="#">Zoom Recording</a>	<a href="#">Lecture 10</a>
	Order By clause			
	Comparisons involving NULLS			
	Nested Queries	Lecture 11	<a href="#">Zoom Recording</a>	<a href="#">Lecture 11</a>
	Exists and Unique functions in SQL			
	Joins in SQL & Cartesian Product, Union, Intersection and Minus operations using Joins			
	Aggregate Functions	Lecture 12	<a href="#">Zoom Recording</a>	<a href="#">Lecture 12</a>
	Group By and Having Clause			
	With and Case: with few examples			
	Views in SQL			
	Alter Command	Lecture 13	<a href="#">Zoom Recording</a>	<a href="#">Lecture 13</a>
	Normalization	Redundant information in Tuples Insertion, Update and Deletion Anomalies Spurious Tuples Functional Dependencies Normalization of Relations 1NF, 2NF, and 3NF BCNF Multivalued Dependency		
Introduction to Transactions	Introduction to Transaction A in DBMS C in DBMS I in DBMS D in DBMS	Lecture 14	<a href="#">Zoom Recording</a>	<a href="#">Lecture 15</a>

## Learning Objectives

## Quiz

Students will completely be understand how data is been captured. Our motive while conducting this would be to engage up with concept and queries. These lectures are constructed in such way that ; students get basics stronger.

Quiz

In this chapter we are digging deeper into ER-Diagrams ; what are components of ER-Diagram ; Terms and terminologies in the ER-model.

Quiz

Students will be able to understand the fundamentals like Relational Model Concepts- Domain, Attributes , Tuples and their relationship. With the help of interactive exercise and quizzes we will be able to grasp the knowledge ; with effective notes we are going to revise the content.

Quiz

We will be digging deep into Concepts like Schema and Usage of Diff. Schemas as well as What is DDL , DML..

Quiz

Quiz