Software Engineering & SDLC Phases	 Evolution of Software Life Cycle Phases Planning Analysis Requirements Analysis Design and Prototyping Development of the Application Testing and Deployment Project Management
Flow Chart and Pseudocode	 Pre-code planning Pseudocode Verify Algorithm Flowchart

Day-2

Architecture and Normalization Concepts	 Describe a DBMS, its components, and advantages for users.
	 Describe the features and characteristics of flat-file, hierarchical, and XML database models. Levels of a DBMS architecture
	 Types of constraints Describe normalization in relation to designing a
	database. • Perform first normal form when designing a database.
	 Perform second normal form when designing a database.
	 Perform third normal form when designing a database. Perform BCNF when designing a database.
ER Diagram	 Describe entity-relationship modeling for a RDBMS Define Entities, Attributes, Relationships
	Degree of relationships Cardinality of relationships
	Relational Database Model
	 Create an ERD for a database based on a Scenario.

Introduction to SQL	What is a Database? What is SOL3.
	What is SQL?
	What is MySQL?
	SQL Commands
Database Connection	Launch MySQL Workbench
	Connect to MySQL Server
	Creating a new Database
	Data Types
	CAST or CONVERT
	Keys in SQL
	Constraints
DDL Commands	DDL Commands
	Add table to Database
	Describe Table
	Alter Table
	Modify and Drop Clause
	Data manipulation
Query Clauses	Database schema
	Import Data
	Query Clauses
	Column Alias

Table Alias