

SILLABUS



Database Fundamentals

No Lesson

- 1 Database introduction
- 2 SQL DDL and DML commands
- 3 Filtering and sorting data
- 4 Joins
- 5 Set operators
- 6 Single row functions
- 7 Aggregate functions
- 8 Transaction management

Data Modeling

No Lesson

- 1 Relational Databases and Relational Model
- 2 The Database Design Process
- 3 Conceptual, Logical and Physical modeling
- 4 Database Normalization. 2nd and 3rd Normal Forms
- 5 Entity Relationship Diagram
- 6 Documenting data model
- 7 Data modeling LAB 1
- 8 Data modeling LAB 2

Oracle PL/SQL Programming

No Lesson

- 1 Introduction to PL/SQL
- 2 Variables, data types, anonymous PL/SQL Blocks
- 3 Control flow and loops
- 4 Cursor management
- 5 Exception Handling
- 6 Stored Procedure and functions
- 7 Packages
- 8 Triggers
- 9 LAB
- 10 Compound, DDL, and Event Database Triggers
- 11 Dependency management
- 12 Working with collections 1
- 13 Working with collections 2
- 14 LAB
- 15 Performance Tuning 1
- 16 Performance Tuning 2

