

Oracle Database 19c: Data Mining Techniques

Course Duration:24 Hours

Course code: OD-19c-DMT

1. Course Overview

This 3-day course introduces the concepts and practical implementation of data mining techniques using Oracle Database 19c. Participants will learn how to discover patterns, predict outcomes, and extract actionable insights by leveraging Oracle's in-database machine learning algorithms. The course covers classification, regression, clustering, anomaly detection, association rules, and model evaluation. With hands-on practice, learners will explore how to prepare data, build models, compare results, and deploy models for real-world business applications directly inside Oracle Database 19c.

2. What you'll learn?

By the end of the course, you should be able to:

- Describe data mining concepts and Oracle Database 19c machine learning framework
- Use Oracle Data Mining algorithms for classification, regression, clustering, associations, and anomaly detection
- Prepare, clean, and transform data for modeling
- Build, evaluate, and interpret predictive and descriptive models
- Apply advanced techniques such as feature selection and attribute importance
- Deploy models inside the database for scoring and integration with applications
- Understand best practices for Oracle Data Mining projects

3. Target Audience

- Data scientists and analysts
- Database administrators and developers working with Oracle 19c
- Business intelligence professionals
- Professionals involved in predictive analytics and data-driven decision making

4. Pre-Requisites

Familiarity with:

- Oracle Database 19c and SQL basics
- General concepts of statistics and data analysis
- Experience with business data and reporting

5. Course content

1. Introduction
2. Data Mining Concepts and Terminology
3. The Data Mining Process
4. Introducing Oracle Data Miner
5. Using Classification Models
6. Using Regression Models
7. Using Clustering Models
8. Performing Market Basket Analysis
9. Performing Anomaly Detection
10. Deploying Data Mining Results