



Consulting and Training | Reach New Heights

Course Name

Oracle Spatial

Sector Name

Information Technology

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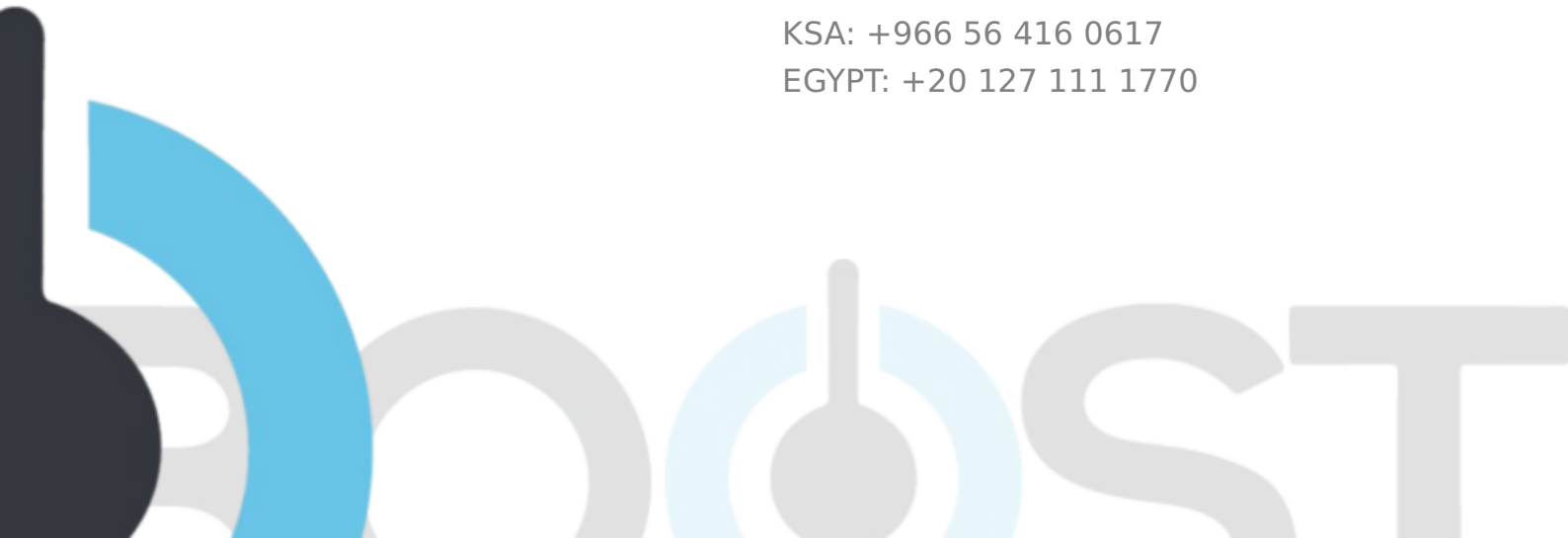
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Oracle Spatial

Course Introduction

Oracle Spatial is a powerful extension to the Oracle Database that enables organizations to store, manage, and analyze location-based data efficiently.

This comprehensive **5-day** hands-on course provides participants with the knowledge and skills needed to effectively implement and utilize Oracle Spatial features for geographic information systems (GIS) applications, location-based services, and spatial data analysis. The course combines theoretical concepts with practical exercises to ensure participants can immediately apply their learning in real-world scenarios.

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Target Audience

- ✓ Database Administrators responsible for managing Oracle databases with spatial data
- ✓ Application Developers building location-based applications and GIS solutions
- ✓ GIS Specialists and analysts working with spatial data integration
- ✓ Data Architects designing spatial database schemas and data models
- ✓ System Analysts are involved in spatial data requirements gathering
- ✓ ETL Developers working with spatial data integration and migration
- ✓ Business Intelligence professionals incorporating spatial analytics
- ✓ Technical Managers overseeing spatial data projects and implementations

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Learning Objectives

- ✓ Design and implement spatial databases using Oracle Spatial
- ✓ Create and manage spatial data with SDO_GEOMETRY objects
- ✓ Perform complex spatial queries and analysis operations
- ✓ Integrate Oracle Spatial with GIS applications and web services
- ✓ Optimize spatial database performance and troubleshoot issues
- ✓ Develop location-based applications using PL/SQL and SQL

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Course Outline

✓ DAY 01

Oracle Spatial Fundamentals and Data Types

- ✓ Introduction to Oracle Spatial and its business applications
- ✓ Spatial data types and geometric concepts
- ✓ Oracle Spatial architecture and components
- ✓ SDO_GEOMETRY object structure and components
- ✓ Points, lines, polygons, and geometry collections
- ✓ Coordinate systems and spatial reference systems (SRID)
- ✓ Setting up spatial environment and creating metadata
- ✓ Basic geometry creation and validation
- ✓ Spatial indexing concepts and implementation

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Course Outline

✓ Day 02

Spatial Queries and Basic Operations

- ✓ Spatial relationship operators and SDO_RELATE function
- ✓ Topological relationships and spatial predicates
- ✓ Spatial filters vs. spatial joins
- ✓ Distance calculations and SDO_WITHIN_DISTANCE function
- ✓ Area, length, and perimeter calculations
- ✓ Linear referencing system (LRS) basics
- ✓ Hands-on spatial query operations
- ✓ Buffer operations and geometric transformations
- ✓ Performance testing and query optimization

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Course Outline

✓ Day 03

Advanced Spatial Analysis and Functions

- ✓ Advanced spatial functions and overlay operations
- ✓ Spatial aggregation and grouping functions
- ✓ Spatial clustering and density analysis
- ✓ Geometric validation and correction functions
- ✓ Spatial window functions and analytical queries
- ✓ Summary statistics for spatial datasets
- ✓ Spatial grouping and classification
- ✓ Complex spatial analysis implementation
- ✓ Advanced measurement functions and reporting

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Course Outline

✓ Day 04

Application Integration and Performance

- ✓ Importing/exporting spatial data formats
- ✓ Integration with GIS software and web services
- ✓ Spatial data exchange standards (GeoJSON, KML, Shapefile)
- ✓ Using Spatial functions in PL/SQL procedures
- ✓ Building spatial stored functions and packages
- ✓ Error handling and exception management
- ✓ Location-based service application development
- ✓ Spatial search and filtering implementation
- ✓ Performance optimization techniques and tuning

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Course Outline

✓ Day 05

Administration, Optimization, and Capstone Project

- ✓ Spatial database maintenance and monitoring
- ✓ Backup and recovery considerations for spatial data
- ✓ Security and access control for spatial objects
- ✓ Troubleshooting common spatial issues
- ✓ Spatial index tuning and optimization
- ✓ Query execution plan analysis
- ✓ Partitioning strategies for large spatial datasets
- ✓ Complete spatial application development project
- ✓ Requirements analysis and database design
- ✓ Testing, optimization, and deployment
- ✓ Knowledge assessment and certification preparation

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 28, 2026	Oct. 2, 2026	5 days	4950.00 \$	England , London
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 9, 2026	Nov. 13, 2026	5 days	4250.00 \$	UAE , Dubai

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