

Oracle Database Course Syllabus

<u>Database Fundamentals</u>	<u>SQL Fundamentals</u>
<ul style="list-style-type: none"> ● Introduction to DBMS and RDBMS ● Database Architecture ● Introduction to Oracle Database ● Oracle Database Versions (10g, 11g, 12c, 19c) ● Client-Server Architecture ● ER Modeling ● Normalization Concepts 	<ul style="list-style-type: none"> ● Introduction to SQL ● SQL Data Types ● DDL Commands (CREATE, ALTER, DROP) ● DML Commands (INSERT, UPDATE, DELETE) ● TCL Commands (COMMIT, ROLLBACK) ● DCL Commands (GRANT, REVOKE) ● Basic Queries using SELECT, WHERE, ORDER BY ● Joins and Subqueries ● Views and Indexes
<u>Data Retrieval Techniques</u>	<u>SQL Functions</u>
<ul style="list-style-type: none"> ● SELECT Statement ● WHERE Clause ● ORDER BY ● GROUP BY ● HAVING Clause ● DISTINCT Keyword ● Joins ● Subqueries ● Set Operators ● Views and Indexes 	<ul style="list-style-type: none"> ● Single Row Functions ● Aggregate Functions ● String Functions ● Numeric Functions ● Date Functions ● Conversion Functions
<u>PL/SQL Programming</u>	<u>Oracle DBA Concepts</u>
<ul style="list-style-type: none"> ● Introduction to PL/SQL ● PL/SQL Block Structure ● Variables and Constants ● Operators ● Conditional Statements ● Loops ● Exception Handling ● Cursors ● Stored Procedures 	<ul style="list-style-type: none"> ● Oracle Database Architecture ● Tablespaces ● User Management ● Roles and Privileges ● Backup and Recovery ● RMAN Basics ● Database Security ● Performance Tuning ● Monitoring and Maintenance

Website: www.nextgenindore.com

Contact Number: +919752683018, +917898460275

Address: Scheme No 78 Main Road 1st Floor, Front of Union Bank,
Nearby Utsah Restaurant & Mahindra Showroom, Indore, Madhya Pradesh 452010, INDIA

NEXTGEN

Computer Institute

<ul style="list-style-type: none">• Functions• Packages• Triggers	
<u>Advanced Oracle Topics</u>	<u>Practical Projects</u>
<ul style="list-style-type: none">• Materialized Views• Partitioning• Data Pump Utility• Scheduler Jobs• Auditing• Query Optimization	<ul style="list-style-type: none">• Employee Management System• Banking Database System• Inventory Management System• Real-Time SQL Query Practice• Mini and Major Projects
<u>Tools Covered</u>	
<ul style="list-style-type: none">• Oracle SQL Developer• SQL*Plus• Oracle Database Express Edition (XE)	

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