



Oracle 12c/19c

Developer

Certification Program

Syllabus/ Course Content

Time Duration: 6 Months

SQL content:

- ❖ Introduction
- ❖ List the Oracle database 11g to 12c main features
- ❖ An overview of components internet platform app server and developer soap
- ❖ Describe relational and object relational database designs
- ❖ Normalization concept
- ❖ Define the term date models
- ❖ Review the system development life cycle
- ❖ Describe different means of sorting data
- ❖ Show how multiple tables can be related
- ❖ Writing Complex query and tune SQL Query
- ❖ Describe how SQL communicates to the database
- ❖ Introducing SQL basic commands
- ❖ Introduction of SQL
- ❖ Writing basic select statements
- ❖ Restricting and sorting of data
- ❖ Introducing SQL function
- ❖ Single row function/ scalar function
- ❖ Multiple row function/ aggregate function/ group by function
- ❖ Conditional expression
- ❖ Using substitution on variable
- ❖ Introducing SQL commands
- ❖ Using DDL statements
- ❖ Managing tables
- ❖ Data manipulation operation
- ❖ Understanding transaction
- ❖ Using transaction control statements
- ❖ Overview of locks
- ❖ Using flashback and purge command
- ❖ Granting and revoking system and Object privileges
- ❖ Designing Tables by using key constraints
- ❖ Deferred constraints
- ❖ Retrieving data from more than one table using join operation.
- ❖ Aggregating data using group functions
- ❖ Introducing the view
- ❖ Introducing the indexes

- ❖ Introducing the synonyms
- ❖ Introducing with sequence and used with database
- ❖ Introducing some queries
- ❖ Single row sub query, multiple rows of query
- ❖ Correlated sub query,
- ❖ Top -n analysis
- ❖ Using the set operators
- ❖ Inserting and updating data
- ❖ Deleting data
- ❖ Creating other schema objects
- ❖ Managing objects with data dictionary views
- ❖ Date and time function
- ❖ Rollup and cube after using group by function
- ❖ Multiple insertion and the types
- ❖ Hierarchical tree
- ❖ SQL loader
- ❖ Advanced SQL
- ❖ Overview of analytical function
- ❖ Introducing in the line view
- ❖ Introduce introduction of window function
- ❖ Materialized view
- ❖ Overview of restaurant
- ❖ Overview of semi join and anti-join
- ❖ Embedding search query with DML operation

PL/SQL Content:

- ❖ What is a procedural language?
- ❖ Difference between procedural language and object oriented language
- ❖ Introducing PL SQL.
- ❖ PL SQL engine architecture.
- ❖ Overview of the types of PL SQL blocks.
- ❖ Create and execute a simple and anonymous code block.
- ❖ Declaring PL SQL identifiers variable constant.
- ❖ Writing simple code block in PL SQL.
- ❖ Fetching data from SQL and plsqli.
- ❖ Interacting with the server Oracle server.
- ❖ Writing control structures.
- ❖ Working with the composite data types.
- ❖ Creating and using subtypes and returning Clause.
- ❖ Introducing cursor and its types.
- ❖ Handling exceptions.
- ❖ Handling error condition by using compiler directives.
- ❖ Overview of named block and oops in PL SQL.
- ❖ Creating stored procedures.
- ❖ Creating stored functions.
- ❖ Local subprogram and remote server program and no copy data types.
- ❖ Inline function and handle restriction of user defined function.
- ❖ Creating packages and the influence of package.
- ❖ Overloading of package.
- ❖ Code encryption by using PL/SQL wrapper.
- ❖ Manipulating large objects.
- ❖ Introducing triggers and its types
- ❖ Handling mutating and mutating error
- ❖ Introducing server error Trigger
- ❖ Creating audit table and session auditing by Trigger
- ❖ Handle file operation (File handling)
- ❖ Advanced PL SQL
- ❖ Working with href(reference cursor)
- ❖ Introduction of collection and why it is used
- ❖ Creating and using associative array nested table Varray
- ❖ Handling context switching
- ❖ Save exception
- ❖ Tuning PL SQL code
- ❖ Using name spaces

- ❖ Overview of stored package
- ❖ Overview of object types in SQL

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Oracle forms Content:

- ❖ Introducing Oracle forms developer and forms services
- ❖ Oracle application server 12c architecture
- ❖ Benefits and components of Oracle developer Suite 12c
- ❖ Running a forms developer application
- ❖ Creating forms modules
- ❖ Overview of design and runtime interface
- ❖ Working with data blocks and frames
- ❖ Working with input items non input items
- ❖ Working with Windows and Canvas
- ❖ Creating runtime and design time editor
- ❖ Creating and using design time and runtime property class visual attributes
- ❖ Creating and using application procedure function and package
- ❖ Creating design time and runtime list of values
- ❖ Introducing record group and its types
- ❖ Producing triggers, debugging triggers
- ❖ Adding functionality to items
- ❖ When time message and alerts
- ❖ Query validation navigation Trigger
- ❖ Transaction processing
- ❖ Sharing objects and code
- ❖ Creating and changing connection at runtime
- ❖ Sending output in all types of file through forms
- ❖ Introducing runtime and compile time error errors
- ❖ Using set and get property
- ❖ Changing property at runtime and design time
- ❖ Using Dynamic SQL in Oracle forms
- ❖ Introducing multiple form applications
- ❖ **Advance forms**
- ❖ File handling operation through forms
- ❖ Introducing timers
- ❖ Development of Runtime environment
- ❖ Design application on tree structure
- ❖ Handling sequence of triggers
- ❖ Creating and using forms parameters
- ❖ Using webutil to interact with the client

Oracle Reports Content:

- ❖ introduction to Oracle reports developer
- ❖ Enterprise reporting
- ❖ Oracle reports services
- ❖ Oracle IAS reports services architecture for the web
- ❖ designing and running reports
- ❖ enhancing a Basic paper report
- ❖ managing report templates
- ❖ create a web report
- ❖ enhancing reports using the data model queries and Groups
- ❖ and handling reports using the data model data sources
- ❖ enhancing reports using the data model creating columns
- ❖ enhancing reports using the paper layout
- ❖ control the paper layout common properties
- ❖ controlling the paper layout specific properties
- ❖ web reporting
- ❖ extending functionality using XML
- ❖ creating and using report library
- ❖ formatting report at design and runtime
- ❖ Extending function Using s r w package
- ❖ Building reports efficiency guidelines
- ❖ **Advance reports**
- ❖ ref(reference) cursor reports
- ❖ creating drill down report
- ❖ calling a web report web through hyperlink in reports
- ❖ overview of report advance Trigger
- ❖ managing report server
- ❖ using Dynamic SQL in reports

For More Details: Visit our website at: <https://www.innozant.com/>

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