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ETL TESTING

Syllabus

SQL Testing Syllabus:

1. Introduction to SQL Testing

- . Importance of SQL testing
- . Different types of SQL testing
- . SQL testing challenges and best practices
- . Tools for SQL testing

2. SQL Syntax and Querying

- . Importance of SQL Syntax and Querying
- . Basic SQL queries (SELECT, INSERT, UPDATE, DELETE)
- . Complex SQL queries (subqueries, joins, aggregates, groupby, order by)
- . Testing SQL queries using different test scenarios

3. Testing Data Integrity and Quality

- . Understanding Data Integrity and Quality

- . Types of data constraints (primary key, foreign key, unique, check)
- . Testing data integrity and quality using sample data
- . Validating data using SQL queries
- . Data profiling and analysis using SQL

4. Testing performance and Scalability

- . Understanding query performance and scalability
- . Indexing and Query optimization techniques
- . Testing SQL queries against large datasets
- . Identifying SQL performance issues and tuning queries
- . Load testing SQL databases and monitoring performance metrics

5. Testing Security and Access Control

- . Understanding SQL Security and Access control
- . Typers of SQL injection attacks and prevention techniques
- . Testing SQL database security using different test scenarios
- . User access control testing using SQL queries
- . Auditing SQL databases for security and compliance

ETL Testing Syllabus:

1. Introduction to ETL Testing

- . Understanding ETL concepts and Architecture
- . Importance of ETL Testing
- . ETL Testing challenges and best practices
- . Tools for ETL Testing

2. Data Mapping and Transformation

- . Understanding Data Mapping and Transformation
- . Different types of data transformations (aggregate, join, filter, etc.)
- . Testing data transformation rules using sample data
- . Validating transformed data using SQL queries

3. Data validation and Reconciliation

- . Understading Data validation and Reconciliation

- . Source to Target Data comparison using SQL queries
- . Data quality and completeness testing using SQL queries
- . Business rules validation using SQL queries
- . Data profiling and analysis using SQLS

4. Error Handling and Exception Reporting

- . Understanding Error Handling ETL
- . Exception Reporting techniques
- . Identifying and resolving errors in ETL process
- . Impact Analysis of Errors on ETL processes

5. Performance and Scalabilty Testing

- . Understanding ETL performance Testing
- . Identifying ETL performance issues and tuning ETL processes
- . Testing eTL processes against large datasets
- . Load testing ETL processes and monitoring performance metrics

6. Metadata Testing

- . Understanding metadata in ETL processes
- . Testing Metadata for completeness and accuracy
- . Identifying and resolving metadata issues in ETL processes
- . Metadata management and documentation

Faculty :

Duration :

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