

Description:

Database Testing is one of the major test requirements in case of backend testing. Testing data residing in database requires specific skill set to test properly. This course introduces the attendees about basic database concepts, objects which are available in a database, SQL Queries, and different types of database testing. This course will help database testers to gain a good knowledge about Database Testing concepts. Ultimately it fills the gap in between the training programs and real time projects.

Objectives:

To understand the components of the database to be testing

To get knowledge about those database components

To understand the methodologies to be followed to test those components

Hands-on Training on writing database queries to test data related operations in the application and database.

Course Coverage:

Module: 1 – Introduction to DataBase

Testing

- What is Database Application?
- Testing the Application vs. Testing the
- DMBS
- Back End vs. Front End Testing
- What should be test in the Database?
- Knowledge required for the Database
- Tester
- Database Testing Phases
- Database Testing Methodologies
- Structural Database Testing
- Functional Database Testing

Module: 2 – Basic SQL

- SQL Coding Standards – what you need to know

- SQL Basics : Select, Insert, Update and Delete
- Using the select Statement to Test data
- Using the insert Statement to generate Test data
- Testing for application accuracy using the Update and Delete Statements
- Testing for basic data integrity using Constraints

Module: 3 –Testing with SQL

- Joining Tables
- Using SQL Queries for Data Verification
- How Concurrency Issue affect data accuracy
- Database Objects:

- Views
- Indexes
- Stored procedures
- Triggers
- User – Defined Functions

- Keys and indexes
- Stored Procedure tests
 - Individual Procedure tests
 - Integration tests of procedures
- Trigger tests
 - Testing Update triggers
 - Testing Insert triggers
 - Testing Delete triggers
- Integration tests of SQL server
- Functional Database Testing Using QTP with VB Script
- Session Wrap – Up
- Summary
- Final Questions

Module: 4 – Using SQL in Scripting Languages

- TOAD Tool
 - Database schema tests
 - Database and devices
 - Tables, Columns types, defaults and rules

Methodology:

Methodology of the programme includes class room sessions with Lecture and Hands-on Practical / Discussion with audio visual aid, bench marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be

Benefits to the participants

After completion of the course, the participant would be able to understand how effectively an organization can implement the administration task.