

Database Testing

Course Content:

1. Database
 - 1.1 Database Definition
 - 1.2 Type of database
 - 1.3 Basics of Database
 - 1.3.1 Tables
 - 1.3.2 Columns
 - 1.3.3 Rows
 - 1.3.4 Schemas
 - 1.3.5 Primary Key
 - 1.3.6 Foreign Key
2. Database Testing
 - 2.1 What is Database Testing?
3. Fundamentals of Database Testing
 - 3.1 Differences between User-Interface Testing and Data Testing
 - 3.2 Types of Database Testing
 - 3.2.1 Structural Testing
 - 3.2.2 Functional Testing
 - 3.2.3 Non-functional Testing
 - 3.3 Database Testing Concepts
 - 3.3.1 Processes
 - 3.3.2 Techniques
 - 3.3.3 Scenarios
 - 3.3.4 Objects
 - 3.3.5 Data Integrity
 - 3.3.6 Data Mapping
 - 3.3.7 Performance
 - 3.3.8 Tools
 - 3.3.9 Backup
 - 3.3.10 Recovery
 - 3.3.11 Security
 - 3.3.12 Challenges
4. Basic SQL (Structured Query Language) & Testing with SQL
 - 4.1 SQL Coding Standards
 - 4.2 SQL Basics : Select, Insert, Update and Delete
 - 4.3 Using the select Statement to Test data
 - 4.4 Using the insert Statement to generate Test data
 - 4.5 Testing for application accuracy using the Update and Delete Statements
 - 4.6 Testing for basic data integrity using Constraints
 - 4.7 Joining Tables
 - 4.8 Using SQL Queries for Data Verification
5. Database tool

- 5.1 SQL Developer
- 5.2 Toad
- 6. Database Testing Practice Exercise
 - 6.1 Practice Exercise 1
 - 6.2 Practice Exercise 2
 - 6.3 Practice Exercise 3
 - 6.4 Practice Exercise 4

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