



9. Software Testing

9.5 ETL Testing

Duration: 30 Lectures

Course Content:

1. Introduction

- 1.1. Data Ware Housing Concepts:
- 1.2. What is Data Ware Housing
- 1.3. OLTP and Data Ware Housing.

2. Data Acquisition

- 2.1. Data Extraction
- 2.2. Data Transformation
- 2.3. Data Loading

3. Data Marts

- 3.1. Dependent Data Mart

4. Data Base Design

- 4.1. Star Schema
- 4.2. Snow Flake Schema
- 4.3. Fact constellation Schema
- 4.4. Advanced calculations

5. SCD(slowly changing dimension)

- 5.1. Type-1 SCD
- 5.2. Type-2 SCD
- 5.3. Type-3 SCD



6. Basic Concepts in SQL

- 6.1. ETL Tool Architecture
- 6.2. White Box and Black BOX Testing
- 6.3. Different Transformation Rules

7. Types of Testing Techniques in ETL

- 7.1. Minus Queuing
- 7.2. Count Queuing

8. ETL Testing Concepts and Introduction

- 8.1. Minus Queuing and its uses
- 8.2. Quality & Responsibilities of a ETL Tester

9. Software development life cycle

- 9.1. Waterfall model
- 9.2. Agile model & methodology
- 9.3. Prototype model
- 9.4. X Spiral model

10. Testing methodologies

- 10.1. White box testing
- 10.2. Black box testing
- 10.3. Grey box testing
- 10.4. ETL Testing Work Flow Process
- 10.5. Preparing ETL Test Plan
- 10.6. Preparing Test cases in ETL Testing
- 10.7. Reporting the Bugs in ETL Testing
- 10.8. ETL Testing Responsibilities
- 10.9. Detect bugs through database queries
- 10.10. ETL Performing Testing & Performing Tuning

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