IMS Overview with Assembler

Course Summary

Description

This course provides an overview of IMS concepts, hierarchical components and access techniques utilizing Assembler Language.

Objectives
At the end of this course, students will be able to:

- Understand IMS software components
- Understand hierarchical concepts
- Understand database creation concepts
- Discuss IMS access methods
- Understand batch programming concepts

Topics

- IMS Overview
- IMS Hierarchical Databases
- DL/I Batch Programming Overview
- IMS Access Methods

Audience

This course is ideal for programmers and managers who need to have an understanding of IMS databases.

Prerequisites

Prior to taking this course, students should have basic knowledge of assembler language coding techniques.

Duration

One day

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Course Outline

I. Introduction to IMS Concepts
- A. File Structures
- B. Hierarchic Concepts
  1. SEGMENT
  2. FIELD
  3. Sequence Field
  4. Search Key
  5. Parent
  6. Child
  7. Root Segment
  8. Database Record
  9. Twins
  10. Maximums

II. Basic Database Definition
- A. The Purpose
- B. Components
- C. DBD Statement
- D. DATASET Statement
- E. SEGM Statement
- F. FIELD Statement
- G. Other Optional Statements
  1. LCHILD Statement
  2. XDFLD Statement
- H. Other Required Statements
  1. DBDGEN Statement
  2. FINISH Statement
  3. END Statement

III. Program Specification Block
- A. The Purpose
- B. Application Views
- C. Control Statements
- D. PCB Statement
- E. SENSEG Statement
- F. SENFLD Statement
- G. PSBGEN Statement

IV. Program Components
- A. IMS and the Program
- B. IMS Interface
- C. Program Setup Overview
- D. Program Communication Blocks
- E. ENTRY Statement
- F. CALL Statement

V. Get Calls
- A. GU
- B. GN
- C. GNP

VI. Update Calls
- A. Insert
- B. Replace
- C. Delete
- D. Sample Program