Course Title: Intro. to Database Systems

Duration: Five (5) days

Class Schedule: 9:00am to 5:00pm


Total Hours: 35 Hours

Description: The course includes overview of the database development process, entity relationship diagrams, relational analysis including normalization, physical database design, SQL, object-oriented databases, client-server and internet database environment, XML, transaction processing and concurrency control, data warehousing and data mining.

Requirements: Exercises and Project

Course Contents:

Day 1

1. Introduction to Databases
2. Database Development Process
3. Entity Relationship Diagram
4. Exercises
5. Overview of Project Requirements

Day 2

1. Relational Analysis
2. Physical Database Design
3. SQL
4. Hands-on Exercises

Day 3

1. Object-oriented database modeling
2. Object-oriented database development
3. Overview of Commercial and Open Source Relational Databases
4. Overview of Commercial and Open Source Object Databases
5. Hands-on Exercises

Day 4

1. Client/Server Systems and Internet Database Environment
2. XML Databases
3. Transaction Processing and Concurrency Control
4. Hands-on Exercises
Day 5

1. Data Warehousing
2. Data and Database Administration
3. Distributed Databases
4. Project Presentation