System Analyst and Design

Duration : 3 Days

Course Content

This highly task-based course focuses on the skills that are essential for Designing Application to develop application systems. Following a streamlined path through the application design and development environment, students gain hands-on experience practice recording business requirements into the Repository, transforming the analysis model into design level definitions, refining the data and application designs, and generating database objects and simple Forms and Web applications.

Prerequisites

- Familiarity Software Environment

Course Objectives

- After completing this course, students will be able to:
- Design and generate an application system that includes an Forms and a Web application
- Refine, generate, and build the database design
- Transform the analysis model into design definitions
- Input business system requirements into the Oracle Designer 6i Repository
- Identify and perform the primary tasks to implement an Application Design project

Who Should Attend

- Application Developers
- Database Designers
- System Analysts
- Project Manager
- Web Application Developers
- Designer/Developers
- Business Analysts
- Data Administrators

Course Outline

The systems analysis milieu

- Role of the analyst
- The system development life cycle
- Information Systems

End-products (deliverables) of systems analysis

- The front end phases Project Initiation and Business Requirements
- Functional (or external) specifications overview
- The starting point: specifying required information (or outputs or results)
- Data taxonomy: elementary, composite, and container
- Choosing internal and external data representation\
- Defining data items o Establishing and maintaining a data dictionary
- Tying the pieces together: dataflow diagrams and use-case scenarios
- Avoiding ambiguity through logic- and process-specifications
- Specifying system inputs
- Designing on-line dialogues and user-interfaces
- Specifying manual procedures
- Specifying interfaces to other automated systems

Data Modeling

- Modeling entities and events
- Attributes, actions, and relationships
- Multi-typed and complex
- Object-oriented data analysis: Encapsulating behavior and inheriting properties
- Using data normalization to simplify database struc

Communication

- Packaging the deliverables and presenting them to the sponsoring users
- Communicating the requirements to the develop

Other important systems analysis activities

- Gathering information
- Understanding the current systems
- Interviewing potential users
- Communicating with the developers o Justifying a proposed system
- Preparing for system testing
- Training and preparing the users
- Acceptance testing and installation
- Assessing the success of the new system o Starting to plan enhancements for later version