Course Title: Oracle Database: Introduction to SQL

Course Description:
This class is applicable to Oracle8i, Oracle9i, Oracle 10g and Oracle 11g Database users. It introduces Oracle Database 11g technology and provides learners with the essential SQL skills of querying the database, the meta data and creating database objects. In addition, the course also delves into the advanced querying and reporting techniques, data warehousing concepts and manipulating large data sets in different time zones.

Course Prerequisite(s):
Basic SQL Programming

Course Objectives:
1. Search data using advanced sub queries
2. Retrieve row and column data from tables with the SELECT statement
3. Employ SQL functions to generate and retrieve customized data
4. Run data manipulation statements (DML) to update data in the Oracle Database 10g
5. Control user access and manage schema objects

Textbook(s):
Oracle Database 11g: Introduction to SQL

Next Class Possibilities:
Oracle Database: Administration Workshop I

Lesson Plan – by week or session
Session 1: Retrieving Data Using SQL Select
Restricting and Sorting Data
Session 2: Using Single Row Functions to Customize Output
Using Conversion Functions and Conditional Expressions
Session 3: Reporting Aggregated Data Using the Group Functions
Displaying Data from Multiple Tables
Session 4: Using Sub-queries to Solve Queries
Using the Set Operators
Session 5: Manipulating Data
Using DDL Statements to Create and Manage Tables
Session 6: Creating Other Schema Objects
Session 7: Controlling User Access
Managing Schema Objects
Session 8: Manipulating Large Data Sets
Generating Reports by Grouping Related Data
Session 9: Managing Data in Different Time Zones
Retrieving Data Using Sub-queries
Session 10: Regular Expression Support