Course Title: Advanced SQL Programming

Course Description: Advanced techniques for transforming an experienced SQL programmer into an expert.

Course Prerequisite(s): Intro SQL Programming or equivalent experience

Course Objectives: Demonstrate advanced techniques and methods for database design and normalization, SQL data types, querying, grouping, set operations, optimization, data scaling, and encoding.

Next Class Possibilities: Oracle DB: Intro to SQL, Oracle DB: OCP Day Package, Oracle DB: OCP Evening Package

Textbook(s): OPTIONAL
SQL Cookbook

Lesson Plan – by week or session
Session 1: Retrieving All Rows and Columns from a Table
          Sorting Query Results
Session 2: Working with Multiple Tables
          Inserting, Updating, Deleting
Session 3: Metadata Queries
          Working with Strings
Session 4: Working with Numbers
          Date Arithmetic
Session 5: Working with Ranges
          Advanced Searching
Session 6: Reporting and Warehousing
Session 7: Reporting and Warehousing Cont’d
          Hierarchical Queries
Session 8: Odds ‘n’ Ends