Rhythex Consulting
Information Security, Audit & Assurance

TRAINING

STRUCTURED QUERY LANGUAGE (SQL)

Designed for beginner to intermediate level users, this 3-day course introduces you to SQL and database concepts. You will learn key data analysis concepts and the basics of database management systems. Examples used in class will illustrate how understanding and querying databases can add value to your compliance efforts and audits. On completion of the course the participants will be able to use SQL effectively to interrogate and analyze data.

- *Basic to intermediate level*

OBJECTIVES

This course will benefit participants in the following areas:

- *Improve understanding of data concepts*
- *Understand database management systems*
- *Understanding database normalization*
- *Understanding data structures and Data dictionary*
- *Usage of database queries and functions.*
- *Building and understanding database logic.*
- *Developing problem solving mentality.*

IN DETAILS

Who: Financial, Operational, and External Auditors; Information System Auditors and Audit Management; Data analysts and Financial Control personal; Prospective ACL users.

What: 3 Days - T**raining course in an online or on-site style setting**

Prerequisites

Participants should have a basic knowledge of Windows.

How Much: $400 (Cost covers Course materials, Certificate of Attendance, Tea Break & Lunch)

Course Content

Session 1: RELATIONAL DATABASE CONCEPTS

- What is a Relational Database?

- Relational Database Structures
- Tables, Rows and Columns
- Indexes, Primary Keys and Foreign Keys
- Data Types
- The Data Dictionary

Session 2: RETRIEVING DATA WITH THE SELECT STATEMENT

- The Select Statement
- The Select and From Clauses
- Conditions and the Where Clause
- Other Conditional Operators
- Logical Operators
- The Order By Clause
- Column Aliases
- Arithmetic Operations
- Precedence of Operators

Session 3: AGGREGATE FUNCTIONS

- Overview of Built in Aggregate Functions
- The Group By Clause
- The Having Clause

Session 4: JOINING TABLES

- Overview of Table Joins
- Inner Joins
- Table Aliases
- Outer Joins

Session 5: BASIC SUBQUERIES AND SET OPERATORS

- Overview of Subqueries
- Basic Subqueries
- Set Operators