SQL Server Developer

• SQL Server Database - Introduction – Week 1 (Saturday) –4 hrs

- Database Concepts and Models
- Introduction to Normalization rules
- Introduction to Microsoft SQL Server 2008
- Install and configure Microsoft SQL Server 2008(Express Edition)
- Question and Answer session
- Exercises

• SQL Server Installation & Introducing Tables – Week 1 (Sunday) – 4 hrs

- Install and configure Microsoft SQL Server 2008(Express Edition)
- Different applications used to manage SQL Server
- Data Types
- Understanding Tables
- Creating Tables
- Question and Answer session
- Exercises

• Tables & Data Integrity & Working with query fundamentals Week 2 (Saturday) – 4 hrs

- Modifying and Deleting Tables
- Viewing Tables
- Types of Tables
- Managing Data Integrity
- Primary and foreign keys
- Querying data
- Question and Answer session
- Exercises

• Working with advanced query techniques Week 2 (Sunday) – 4 hrs

- Joining tables
- Migrate data between tables
- Using system functions
- Working with NULL values
- Aggregate queries
- Using Ranking functions
- Modifying Data
- Question and Answer session
- Exercises

• Working with advanced query techniques Week 3 (Saturday) – 4hours

- Using Common Table Expressions in queries
- Implementing Subqueries
- Working with Correlated Subqueries
- Working with XML
- Managing Transactions
- Cross tabulation techniques
- Question and Answer session
- Exercises

Using Programming objects for Data manipulation Week 3 (Sunday) – 4hours

- Various programming constructs of Transact-SQL
- Using local Variables
- Using Global Variables
- Using Local temporary tables
- Using Global temporary tables
- Handling errors and exceptions

• Using Programming objects for Data manipulation – Stored Procedures Week 4 (Saturday) – 4hours

- Overview of Stored Procedures
- Benefits of using stored procedures
- Creating and maintaining Stored Procedures
- Using Input parameters
- Managing return and output parameters
- Using dynamic queries
- Question and Answer session
- Exercises
- Using Programming objects for Data manipulation Stored Procedures & Views Week 4 (Sunday) – 4hours
 - Stored procedure life cycle
 - Stored procedure dependencies
 - Performance considerations of Stored procedures
 - Overview of Views
 - Types of Views
 - Creating and maintaining Views
 - Question and Answer session
 - Exercises

- Using Programming objects for Data manipulation Functions & Triggers & Cursors Week 5 (Saturday) – 4hours
 - Overview of User Defined Functions
 - Types of Functions
 - Creating Functions
 - Overview of Triggers
 - Types of Triggers
 - Virtual tables
 - Creating Triggers
 - Managing Triggers
 - Overview of cursor
 - Using cursor
 - Question and Answer session
 - Exercises

• Query Optimization techniques Week 5 (Sunday) – 4hours

- Introduction to query optimization
- Optimization techniques
- Indices
- Managing Indices
- Statistics maintenance
- Using SQL Profiler for identifying
- Question and Answer session
- Exercises

Total Hours:40