

SQL / TSQL Development

1. Basic database and design
2. What is DDL, DML
3. Data Types
4. What are Constraints & types
 1. Unique
 2. Check
 3. NULL
 4. Primary Key
 5. Foreign Key
5. Default
 1. Joins
 2. Where
 3. Group by & Having
 4. Sub Queries
 5. Usage of While loop & if conditions
 6. Views
 7. Stored Procedures
 8. CTE
 9. Exception handling
 10. Transactions
 11. Declaring & Using Variables and Table variables in SQL
 12. Temp tables
 13. Cursor
 14. Pivot & Un-Pivot
 6. System functions & User Defined Functions (String, Table value: inline Functions and multi value, Cross Apply)
1. Stored Procedures
7. Triggers

Microsoft Business Intelligence

Introduction to MSBI:

1. What is MS-BI
2. Advantages of MS-BI
3. DWH Concepts
 - a. -->What is DWH?
 - b. -->Definition of DWH (Ralph Kimball, Bill Inmon Definitions)
 - c. -->OLTP Vs OLAP
 - d. -->DWH Architecture
 - e. -->Data Acquisition Process (ETL)
 - f. -->Data Analysis Process (OLAP)
 - g. -->DWH Design Guidelines (Star, Snowflake Schemas)
 - h. -->Tools used in DWH
 - i. -->Data Mart

Introduction to SSIS:

4. SSIS installation
5. SSIS Architecture
6. Package
7. Tasks ,Control Flow , Data Flow

Developing SSIS Packages:

8. SSIS Wizard
9. SSIS Designer (SQL Server Data Tools)
10. Variables and Expressions
11. Breakpoints
12. Data viewers
13. Configuring Error Output

Errors and Debugging SSIS

14. Events Handling
15. Execution Logging
16. Data Flow Tasks(ETL)
17. Control Flow Tasks
18. .Net Scripting Task

SSIS Administration

19. Configuration
20. Deployment
21. Security
22. Manually Executing SSIS Package
23. Scheduling SSIS Package
24. Importing and Exporting Packages
25. Monitoring and Optimizing Packages

DWH with SSIS

26. Dimension Tables Data Loading
27. Fact Tables Data Loading

Introduction to SSRS

28. What is SQL Server Reporting Services?
29. What can you do with SSRS reports?
30. What components does SSRS use?
31. Who uses SSRS?

Authoring Reports

32. Basics Of SSRS
33. Data Source
34. Data Set
35. SSRS Expressions
36. Reports Formatting

Advanced Authoring

37. Parameterized Reports
38. Sub Reports
39. Drill Down Reports
40. Linked Reports In SSRS
41. Filters in SSRS
42. Actions In SSRS

SSRS Administration

- 43. Installation and Configuration
- 44. Deployment and Security
- 45. Subscriptions and Rendering
- 46. Caching and Snapshots

AD –Hoc Reports Development

- 47. Report Model Project
- 48. Model Designer
- 49. Report Builder

Introduction to SSAS

- 50. Dimensions
- 51. Facts
- 52. Data Sources
- 53. Data Source Views

Developing Cubes

- 54. Cube Designer
- 55. Partitions and Aggregations
- 56. Dimension Usage
- 57. Calculations and Kpis
- 58. Perspectives, Actions

MDX Language

- 59. Axes, Slice
- 60. Tuple and set
- 61. MDX Queries
- 62. MDX expressions

SSAS Administration

- 63. Installation
- 64. Configuration
- 65. Deployment
- 66. Processing

- 67. Security
- 68. Backup and Restore