

ADO.NET

Before ADO.NET you must know!!!

1. Database

- What is Database
- Logical and Physical design
- Relational Database
- Normalizations
- Key [Primary / Foreign / Identity / Unique / Composite Key]
- Constraints
- Entity Relationship Diagrams
- Structured Query Language - SQL
- Transactions and Log Files

2. SQL Server

- Over view of SQL server
- Users and security
- SQL Server installation
- Version in SQL server

3. Let us Start with SQL Sever

- Default Databases
- Creating Database Tables
- Working with Keys / Relations

4. SQL DML , DDL & Statements

- Select
- Update
- Delete
- Insert
- Alter
- Drop
- Delete
- Truncate

5. Working with

- Distinct
- Where
- Order by
- Top
- Group by
- Having, AND & Or, Operators

- SQL Wild cards, Top, like , IN operator
- Between

6. Let us move to Bit Advanced Joins

- Inner Joins
- Left Join, Right Join, outer joins self
- Full Join, Union, Select into
- Not Null, Unique.

Still more...

Store Procedures, Views,
Cursors, Temporary Tables, Jobs

7. Aggregate functions

Now, we are ready to go with

ADO.NET

1. Introduction

- Overview of ADO.NET
- Design Goals of ADO.NET
- ADO.NET Architecture

2. Data Providers

- Sql server data provider
- OLE Db data provider
- ODBC data provider
- Oracle data provider

3. Dataset

- Dataset object Model
- DataTable Collection
- Data Relation Collection

4. Connecting and Retrieving Data

- Connecting to Datasources
 - Establishing a connection
 - Connection events
- Connection string
 - Building connection string



- Storing & Retrieving connection string
 - Working with command
 - Executing a command
 - Working with command parameters
 - Automatically generating commands
 - Working with DataAdapter
 - Adapter and Dataset
 - Using parameter with Adapter
 - DataReader
 - Retrieving data from DataReader.
- 5. Using Datasets in ADO.NET**
 - Creating Dataset, Adding Tables to Dataset
 - Adding Relations between Tables
- 6. DataAdapter & Dataset**
 - Update / Fill Methods
- 7. Dataset & XML** [Adv]
 - Loading a Dataset from XML
 - Writing a Dataset as XML Data
- 8. Modifying Data in ADO.NET**
 - Using stored procedures to update Data
 - Updating Data source with Data Adapter
- 9. Updating Data with Command**
 - Modifying data in a data source
 - Performing catalog operations
- 10. Parameter and Command**
- 11. Transactions**

Still more..

Datatables, Datarows, Dataview, Dataset queries [Adv], new features in 2.0.

