

Network Fundamentals & SQL

Network

1. Communication over the network
2. Application layer functionality and protocols
3. OSI Transport Layer
4. OSI Network Layer
5. Addressing the Network – IPv4
6. Data Link Layer
7. OSI Physical Layer
8. Ethernet
9. Planning and Cabling Networks
10. Configuring and Testing Your Network

SQL Server

1. Introduction to SQL Server
2. Data Types-Integer, Number, Float, Double , Date & Time
3. Numeric function-ABS, Floor, Power, Pi & Sqrt
4. String Function-Char, Len, Replace, Reverse , Ltrim , Rtrim , Str , Substring , Upper
5. Date Function-Getdate, Dateadd, Datediff
6. DDL- Create Table, Alter Table – Add, Drop & Modify, Drop Table
7. Constraints- Unique, Primary Key, Foreign Key [On Delete / On Update], Check, Default & Not Null
8. Enabling & Disabling Constraints
9. DML- Insert , Update & Delete Operations
10. Queries- Select Statement, where Clause, In, Between & Like operators, Group By & Having Clause.
11. Set Operators- Union , Intersect & Except
12. Aggregate Functions- Avg, Min , Max , Sum & Count
13. Sequences – Create, Alter & Drop
14. Stored Procedures, Functions & Triggers