

Data Analytics 2.0 - F'24

Course Content:

✓ MS Excel

1. Mathematics-based formulas
2. Text processing-based formulas
3. Date and time processing formulas
4. IF Operator
5. Logical Operator (AND and OR)
6. Cell Referencing (Relative and Absolute)
7. Lookup, VLOOKUP and Hlookup
8. Pivot Table
9. Slicers
10. Format Painter
11. Transpose
12. Text to Column
13. Index
14. Match
15. Offset
16. Conditional formatting
17. Data Visualization
18. Charts
19. Excel and SQL Database connectivity
20. Reports and Dashboards
21. Projects * 2
22. Topmost Asked Interview Questions

✓ SQL

1. Introduction to SQL
2. SQL vs MySQL
3. MySQL vs SQL Server
4. Installation of SQL Server



5. RDBMS
6. SQL Commands
7. Naming Convention in SQL
8. Comment
9. Aggregate Functions
10. Data Import and Export
11. Alias
12. DINSTINCT
13. WHERE Clause
14. Order by ASC | DESC
15. Operator
16. TOP Command
17. LIKE Operator
18. GROUP BY
19. Having Clause
20. CASE Statement
21. Joins
22. Set Operators
23. SQL Constraint
24. SQL Subsets
25. Views
26. Windows Functions
27. Store Procedure
28. Functions
29. Index
30. Temp Tables
31. Common Table Expression (CTEs)
32. Performance Optimization in SQL
33. Job Creation and Monitoring (Automation)
34. Most Asked Interview Questions

✓ Power BI

- Introduction
- Installations of Power BI
- Power Platform
- Microsoft Fabric



- Report vs Dashboard
- Project Flow in Power BI
- Power BI Versions
- Overview of Power BI Desktop Tool
- Components of Power BI
- Data Connectors
- Data Connections
- Power Query Editor
- Data Transformation
- Data Cleaning in Power Query Editor
- Custom Columns or Calculated Columns
- Join multiple data sources using Merge
- Combine multiple data sources using Append
- Merge vs Append (Join vs Combine)
- Group By
- Advance Editor
- Duplicate vs Referencing in Query Editor
- Measures
- Data Modeling
- DAX
- Types of Filter
- Filter Synchronization
- Data Visualization
- Create Dashboards
- Data Validation
- Beautification of Power BI
- Power BI services
- Dashboard Publish
- Access to Dashboard
- Row Level Security
- Object Level Security
- Python Integration in Power BI
- Gateway
- Project * 5
- Most Asked Interview Questions

✓ Python

1. Numpy
2. Pandas
3. Matplotlib
4. Project * 2

✓ Problem Solving Framework

1. Pareto
2. Six Sigma (LEAN)
3. SMART Framework
4. Eisenhower's Law
5. ITSM Approach

✓ Personal Branding

- Resume vs CV
- Effective Resume (Similar to Elon Musk)
- Resume Template
- LinkedIn Profile
- Naukri Profile
- Most Asked Interview Questions
- Interview Checklist
- Mock Interview