

DataQuest Solutions

Advanced Excel

Lesson 1. Advanced Functions and Formulas

- Lookup & Reference Functions: Using XLOOKUP, VLOOKUP, HLOOKUP, INDEX and MATCH for efficient data referencing.
- Dynamic Array Functions. Leveraging FILTER, UNIQUE, SORT, and SEQUENCE for dynamic data manipulation
- Data Validation and Conditional Formatting: Ensuring Data Quality and highlighting key trends with advanced rules.
- Text Functions & Data Cleaning: Mastering text manipulation (LEFT, RIGHT, CONCATENATE) and handling duplicates/errors
- Advanced Conditional Logic. Using IFS, SWITCH and nested IF functions for multi-condition logic

Lesson 2. Advanced Data Analysis Tools

- Solver Tool. Introduction to Solver for optimization problems
- Scenario Manager & Goal Seek: Exploring advanced What-If-Analysis for data driven decisions
- Power Query: Importing, transforming and combining data from multiple sources efficiently
- Complex Pivot Table Analysis: Using calculated fields, filters and grouping for detailed insights
- Power Pivot & Data Modelling: Creating relationships between datasets and building robust data models
- Data Tables for Sensitivity Analysis: Utilizing one-variable and two-variable data tables for scenario evaluation
- Advanced Charting Techniques. Creating Custom Visuals such as combo charts, waterfall charts, sparklines and dynamic charts
- Macros and VBA Basics: Introduction to recording and running Macros for automating repetitive tasks

Lesson 3. Final Project

- Capstone Analysis: Apply advanced Excel techniques to solve a comprehensive, real world business problem
- Dashboard Creation. Design Interactive Dashboards for data visualization and storytelling
- Real-World Datasets: Work on practical datasets to enhance problem solving and analytical skills

