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CAREER INSTITUTE

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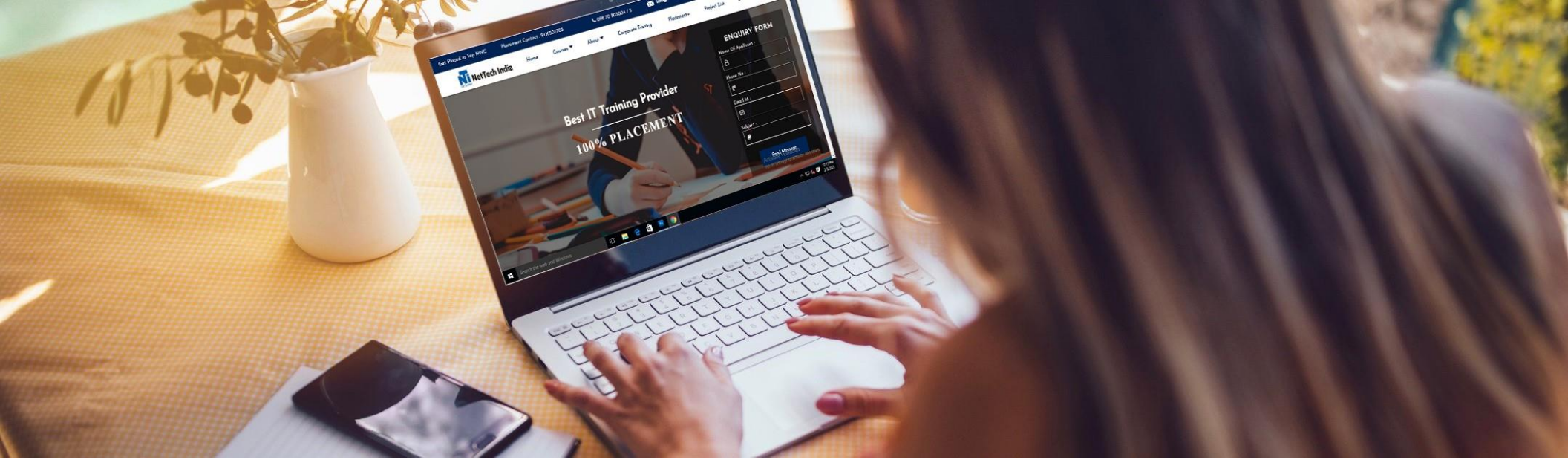
Advance Certification Course in

FINANCE ANALYST



ABOUT US

Infobyte Computer Education offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **infobyte**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.

25%
Theory

75%
Practicals

ADVANCE FINANCE ANALYST

Infobyte offers the Finance Analyst Certification Course in Mumbai, Thane, Navi Mumbai, which is introduced for commerce students and helps them for professionals all towards the same goal to acquire skills and to fulfill the present need of Financial Accounting and Taxation Industry's demands. **Infobyte** course and the training will prepare the student to be able to carry Accounting and Taxation tasks in all three sectors such as Manufacturing, Trading and Service Industries.

Why Infobyte ?

- Free Complete Placement Training
- Career Growth - Higher Pay & Position
- Encourages Professional Development
- Enhances Professional Credibility.
- Internship Assistance
- Free Demo Class
- Certified Course
- Excellent training with Qualified Trainer
- 50+ Case Studies
- 10+ Projects

COURSE CONTENT

- PYTHON
- TABLEAU
- POWER BI
- ADVANCE EXCEL
- FINANCIAL STATEMENT ANALYSIS

PYTHON

1. Introduction to Python

- History of Python
- Why to learn python
- How is Python Different?
- Installing Python

2. Python Interpreter

- Using the interpreter
- Integrated Development Environments (IDE) How to run Python programs?

3. Basics of Python

- Variable
- Keywords
- Statements & Comments
- Indentation
- Data types

- Static Typing vs Dynamic Typing
- Input and output
- Operators Arithmetic operator Relational Operator Assignment Operator
- Logical operator Bitwise operator Membership Operator
- Identity Operator

4. Control Flow

- If statement
- If - else
- If – elif -else
- Nested if-else
- while loop
- for – in loop
- Nested for loop
- Nester while loop
- Loop with else
- Pass statement
- Break and continue

5. Functions

- Basics Defining function
- function call Return statement
- Function with parameter and without parameter
- Function parameters Call by value or call by reference local and global variable
- Recursion, Anonymous (lambda) function
- User define functions
- Examples

6. Modules

- Defining module
- How to create a module
- Importing module
- Dir()
- Module search path
- Reloading a module
- Sys module
- Os module
- namespace

7. Package

Defining package

How to create the package
Importing package
Installing third party packages

8. Numeric Types

Numeric type basics
Hexadecimal, Octal, and Binary Notation
Complex Numbers
Typecasting Numeric Functions
Random number generation(Using Random Modules)

9. String

Defining a string
Different ways to create string Accessing elements of the string Escape sequence
Raw string String methods String formatting Expressions

10. List

- Defining a list
- Creating list
- Accessing list elements of list
- Deleting list
- List methods
- Functions used with list
- List comprehension
- Implementation of stack and queue using list
- Use of Zip ()
- Matrix operations using list

11. Tuple

- Defining a tuple
- Creating a tuple
- Accessing elements of the tuple
- What is Immutability
- List vs tuples
- Tuple Methods Functions used with tuple
- Advantage of Tuple

12. Dictionary

Defining a dictionary
Creating a dictionary
Accessing elements of the dictionary
Deleting a dictionary
Dictionary methods
Dictionary Comprehension

13. Set

Defining a set
Creating set
Set operations
Set methods
Set comprehension

14. Files

Defining a file
Types of file operations
Opening a File
Closing file
File modes

- File attributes
- Writing to file
- Reading from file
- Appending to file
- File positions
- Binary file
- Pickle module

15. Exception Handling

- Defining an exception?
- Default exception handler
- Exception handling techniques

a. Detecting Exception (try)
b. Catching exceptions (catch)
c. Catching multiple exceptions
d. Raising exception (raise) Finally block

- User-defined exceptions

16. Object-Oriented Programming

OOPS concepts Defining

Class Creating object

- Method vs function Calling methods
- Instance attribute vs class attribute
- Instance method vs class method
- Private attribute and method Static Method
- Method Overloading Constructor
- Method Overriding Constructor
- List of objects Inheritance
- Examples

17. Multi-Threading

- Process-based multitasking
- Thread based multitasking
- Creating a Thread without using class
- Creating thread using class
- Sleep() method
- Join() method Getting and setting the name of the Thread Logging module
- Synchronization
- Lock concept
- Object-Oriented

- Inter thread communication
- Is_Alive() method
- Active_count() method
- Enumerate() method
- Current_thread() method
- Daemon Thread

18. GUI Programming with Tkinter

- Introduction to Tkinter
- Creating a window Tkinter widgets Label
- Button Entry Messagebox List
- Radio Button CheckButton Creating Frame
- Creating Menu Assignments on Tkinter
- Examples

19. Event Handling

- Defining an event
- Bind() method
- Mousse events
- Keyboard events
- Examples

20. Data Base Programming

- Introduction to MySQL.connector module, Connecting to the database by using MySQL, Creating a table by MySQL
- Performing SQL operations, Introduction to mysql, Installing mysql, Creating database using mysql
- Connecting MySQL database from python, Creating a table, Performing
- SQL operations
- Examples

21. Networking

- Introduction to Network programming, Ip address, Port NumberSocket module, Server socket, Client socket, Socket methods, TCP socket, UDP socket
- Create server-client examples

22. Conversion of Python script to executable file

- Defining an executable file , Deploying the application

23. LIVE PROJECTS

- Create GUI and store data in the Database. (5-day session) Create a server-client program. (using TCP)

And More...

TABLEAU

1. Tableau and Data Visualization

- What is Data Visualization?
- Scope of Data Visualization
- Tableau Visualization Engine
- Various Visualizations: ext Tables, Pie Charts, Bar, and Line
- Visualizations: Heat Maps, Side by Side Lines, Highlight Tables, Circle Plots
  Visualizations: ree Maps, Area Charts, Dual Charts, Scatter Plots
- Tableau Workspace
- Dashboard and the Startup Quadrant
- Dashboard Tricks: Reference Lines, Droplines, and Tooltips

2. Tableau and Data Connections

- Understanding Data Connections
- How to connect to Tableau Data Server?
- Data Connections: Joining and Blending
- Defining a Join
- Various Kinds of Join
- Usage of Join
- Right Outer Join
- Custom SQL Enabled
- Data Blending and Tableau

- Usage of Data Blending
- Data Blending in Tableau
- What is Kerberos Authentication?
- Working of Kerberos Authentication

3. Data Organization

- How to Organize and Simplify Data?
- What is Filtering?
- How to Apply a Filter to a View?
- Filtering on Dimensions
- Totals and Subtotals
- Aggregating Measures and Data Spotlighting
- String Functions and Logical Functions
- How to Sort Data in Tableau?
- Combined Fields
- Group and Aliases
- Advanced Table Calculations
- Calculated Fields and Table Calculations
- Quality Assurance for Table Calculations
- Hierarchies and Sets
- Tableau Bins
- Fixed Size and Variable Sized Bins
- Drilling and Drilling Methods

- Aggregations
- Formatting and Annotations
- Spatial Analysis and Geo-Coding
- Chart Types: Motion Charts, Gantt Charts
- Box and Whisker Plots
- Mapping and Locations
- Pan Zoom Lasso and Radial Selection

4. Advanced Data Preparation and Analytics In Tableau

- Studying Retail Sector Forecasting
- Building and Analyzing Box Plots
- How to work with Large Data Sources in Tableau?
- Understanding and Implementing Pivot and Split
- Real-World Retail and its Data
- Data Source Filters
- Trendlines
- Advanced Timeseries Blending
- Calculating Sales Per Capita
- Forecasting in Tableau
- How to Present a Storyline?
- Creating Animations in Tableau
- Real-World Case Study: World Health Trends Investigation Building Visualization and Adding Animation
- Manually Sorting Blended Data
- Finalizing the Dashboard and Animations in Tableau

5. Dashboards and Work Sharing

- Building Interactive Dashboards
- What are Action Filters?
- How to create Story Boards?
- Best Practices to create Dashboards
- Cover Pages
- Annotations
- Tool Tips and keyboard shortcuts
- Sharing work
- Tableau Online
- Tableau Reader

And Many More...

POWER BI CONTENT

Power BI Complete Introduction:

- Power BI Introduction
- Data Visualization, Reporting
- Business Intelligence(BI), Traditional BI, Self-Serviced BI
- Cloud Based BI, On Premise BI
- Power BI Products
- Power BI Desktop (Power Query, Power Pivot, Power View)
- Flow of Work in Power BI Desktop
- Power BI Report Server, Power BI Service, Power BI Mobile
- Flow of Work in Power BI / Power BI Architecture
- A Brief History of Power BI

PBI Desktop Installation, PBI Desktop & Service Overview

- Power BI Desktop Installation
- Building Blocks of Power BI
- Datasets, Visualizations, Reports, Dashboards, Tiles
- Power BI Desktop User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Overview of Power Query / Query Editor - Extract, Transform & Load Data
- Connecting to Data Sources, Establish connection to the Excel source
- Importing Data into Power BI or Query Editor
- Transforming the Data using Power Query
- Model the Data using Power Pivot – Relationship View
- Creating New Measures and New Columns using DAX – Data View
- Visualizing the Data using Power View and Power Maps – Report View
- Saving and Publishing the Visuals or Reports
- Logon to Power BI Service
- View the Reports in PBI Service and Share the reports

Module 1: Power Query

Introduction to Power Query – Extract, Transform & Load

- Data Transformation, Benefits of Data Transformation
- Shape or Transform Data using Power Query
- Overview of Power Query / Query Editor, Query Editor User Interface
- The Ribbon (Home, Transform, Add Column, View Tabs)
- The Queries Pane, The Data View / Results Pane, The Query Settings Pane, Formula Bar
- Advanced Editor – Complete ETL Code
- Saving Your Work – Appling ETL Changes – Loading into Power Pivot Model
- Power Query Conceptually

Datatypes and Filters in Power Query

- Datatypes, Changing the Datatype of a Column
- Filters in Power Query
- Auto Filter / Basic Filtering
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns

Inbuilt Column Transformations

- Remove Columns / Remove Other Columns
- Name / Rename a Column Reorder Columns or Sort Columns
- Add Column / Custom Column
- Split Columns
- Merge Columns
- PIVOT, UNPIVOT Columns
- Transpose Columns

In built Row Transformations

- Header Row or Use First Row as Headers
- Keep Top Rows, Keep Bottom Rows
- Keep Range of Rows
- Keep Duplicates, Keep Errors
- Remove Top Rows, Remove Bottom Rows, Remove Alternative Rows
- Remove Duplicates, Remove Blank Rows, Remove Errors
- Group Rows / Group By

Combine Queries (Append Queries & Merge Queries) Append Queries / Union Queries

- Append Queries
- Append Queries as New
- Append 2 or more files individually with different queries
- Appending multiple files of same type from a folder using single query
- Query Options
- Copy Query, Paste Query
- Delete Query, Rename Query
- Enable Load, Include in report Refresh
- Duplicate Query, Reference Query
- Move to Group, Move Up, Move Down

Merge Queries / Join Queries

- Merge Queries, Merge Queries as New
- Default Types of Joins / Join Kinds / Merge Type :
- Left Outer (all from first, matching from second)
- Right Outer (all from second, matching from first)
- Full Outer (all rows from both)
- Inner (only matching rows)
- Left Anti (rows only in first)
- Right Anti (rows only in second)
- Cartesian Join or Cross Join

Module 2: Power Pivot

Power BI Data Modeling – Relationship View

- Data Modeling Introduction
- Relationship, Need of Relationship
- Relationship Types / Cardinality in General
- One-to-One, One-to-Many (or Many-to-One), Many-to-Many
- AutoDetect the relationship, Create a new relationship, Edit existing relationships
- Make Relationship Active or Inactive
- Delete a relationship
- Cross filter direction (Single, Both), Assume Referential Integrity

Enhancing the Data Model – DAX

- What is DAX, Calculated Column, Measures
- DAX Table and Column Name Syntax
- Creating Calculated Columns, Creating Measures
- Implicit vs Explicit Measures
- Calculated Columns vs Measures
- DAX Syntax & Operators
- DAX Operators
- Types of Operators : Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators

DAX Functions Categories

- Date and Time Functions
- Logical Functions
- Text Functions
- Math & Statistical Functions
- Filter Functions
- Time Intelligence Functions

DAX Date & Time Functions

- YEAR, MONTH, DAY
- WEEKDAY, WEEKNUM
- FORMAT (Text Function) Month Name, Weekday Name
- DATE, TODAY, NOW
- HOUR, MINUTE, SECOND, TIME
- DATEDIFF, CALENDAR
- Creating Date Dimension Table

DAX Text Functions

- LEN, CONCATENATE (&)
- LEFT, RIGHT, MID
- UPPER, LOWER
- TRIM, SUBSTITUTE, BLANK

DAX Logical Functions

- IF
- TRUE, FALSE
- NOT, OR, IN, AND
- IFERROR
- SWITCH

DAX Math and Statistical Functions

- INT
- ROUND, ROUNDUP, ROUNDDOWN
- DIVIDE
- EVEN, ODD
- POWER, SIGN
- SQRT, FACT
- SUM, SUMX
- MIN, MINX
- MAX, MAXX
- COUNT, COUNTX
- AVERAGE, AVERAGEX
- COUNTROWS, COUNTBLANK

DAX Filter Functions

- CALCULATE
- ALL
- RELATED

DAX Time Intelligence Functions

- TIME INTELLIGENCE INTRODUCTION
- TOTALMTD, TOTALQTD, TOTALYTD
- PREVIOUSDAY, PREVIOUSMONTH, PREVIOUSQUARTER, PREVIOUSYEAR
- NEXTDAY, NEXTMONTH, NEXTQUARTER, NEXTYEAR
- SAMEPERIODLASTYEAR
- YOY Growth
- MOM Growth

Module 3: Power View

Report View / Power View

- Report View User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Visual Interactions
- Interaction Type (Filter, Highlight, None)
- Visual Interactions Default Behavior, Changing the Interaction

Filters in Power View

- Filter Types
- Visual Level Filters, Page Level Filters, Report Level Filters, Drill Through Filters
- Filter Sub Types
- Basic Filtering, Advanced Filtering, Top N, Relative Date Filtering
- Numeric field filters, Text field filters, Date and Time field Filters

Grouping, Binning & Sorting

- Grouping and Binning Introduction
- Using grouping, Creating Groups on Text Columns
- Using binning, Creating Bins on Number Column and Date Columns
- Sorting Data in Visuals
- Changing the Sort Column, Changing the Sort Order
- Sort using column that is not used in the Visualization
- Sort using the Sort by Column button

Hierarchies and Drill-Down Reports

- Hierarchy Introduction, Default Date Hierarchy
- Creating Hierarchy, Creating Custom Date Hierarchy
- Change Hierarchy Levels
- Drill-Up and Drill-Down Reports
- Data Actions, Drill Down, Drill Up, Show Next Level, Expand Next Level
- Drilling filters other visuals option

Power BI Visualizations

- Visualizing Data, Why Visualizations
- Visualization types, Field Wells
- Visuals for Filtering, Visualizing Categorical Data, Visualizing Trend Data
- Visualizing KPI Data, Visualizing Tabular Data, Visualizing Geographical Data
- Leveraging Power BI Custom Visuals

Visuals for Filtering

- Slicer Visualization
- When to use a Slicer
- Create and format Slicer Visualization
- Hierarchy Slicer (Custom Visualization)
- When to use a Hierarchy Slicer
- Create and format Hierarchy Slicer
- Advantages of Hierarchy Slicer

Visualizing Trend Data

- Line and Area Charts
- Create and Format Line Chart, Area Chart, Stacked Area Chart
- Combo Charts
- Create and Format Line and Stacked Column Chart, Line and Clustered Column Chart
- Create and Format Ribbon Chart, Waterfall Chart, Funnel Chart

Visualizing KPI Data

- Create and Format Gauge Visual, KPI Visual
- Create and Format Card Visualization, Multi Row Card

Module 4: Power BI Service

Power BI Service Introduction

- Power BI Service Introduction, Power BI Cloud Architecture
- Creating Power BI Service Account, SIGN IN to Power BI Service Account
- Publishing Reports to the Power BI service, Import / Getting the Report to PBI Service
- My Workspace / App Workspaces Tabs
- DATASETS, WORKBOOKS, REPORTS, DASHBOARDS
- Working with Datasets, Creating Reports in Cloud using Published Datasets
- Power BI Datasets Live Connection using Desktop
- Working with Workbooks, working with Reports, Sharing Reports

Dashboards Development

- Creating Dashboards
- Pin Visuals and Pin LIVE Report Pages to Dashboard
- Advantages of Dashboards
- Interacting with Dashboards
- Adding Tiles to Dashboards
- Web Content, Image, Text Box, Video
- Formatting Dashboard
- Sharing Dashboard

Data Gateways

- Introduction to Data Gateways
- How Data Gateways work
- Connect to an on premise Data Source by using a Data Gateway
- Download Data Gateway
- Installing a Data Gateway
- Types of Gateways
- On-premises Data Gateway, On-premises Data Gateway (personal mode)
- Manage Data Gateway
- Add and Remove Administrators
- Add Data Source, Add or Remove Users to a Data Source
- Refresh On Premise Data
- Configuring Automatic Refresh using Schedules

Collaboration in Power BI using App Workspace

- Introduction to App Workspaces
- Create an App Workspace
- Add Members to App Workspace to Collaborate
- App Workspace Access
- Admin, Member, Contributor

Row Level Security in Power BI

- Introduction to Row Level Security
- Row Level Security (RLS) with DAX
- Manage Roles, Creating Roles, Testing Roles
- Adding Members to Roles in Power BI Service
- Dynamic Row Level Security
- Creating Users Table and Adding to the Model
- Capturing users using UserName () or UserPrincipalName ()
- DAX Functions

ADD ON

- Real-time Project Explanation
- Resume Preparation
- Interview Questions Discussions

ADVANCED EXCEL CONTENT

- Multiple Level Subtotal Reports
- Filtering Database & Sorting Data
- Securing & Protecting Worksheet
- Linking Multiple Sheets
- 3D Reference in Excel
- Sheet Referencing
- Dynamic Linking Word/Excel/Power point
- Function H lookup V lookup Lookup
- X Lookup Dynamic H lookup V lookup
- COUNTIF, SUMIF, SUMIFS
- What if-if-analysis
- Goal Seek
- Pivot Table & Pivot Charts Slicer
- Reporting

- Scenario Manager
- Dated if Functions
- Date Functions
- NESTED IF
- Consolidation of Data
- Data Validation
- Logical Function
- (IF, AND, OR, NOT)
- Macro: Definition & Concepts
- Record & Run Macro
- Store a Macro
- Intro to VBA
- Live Projects: Over 30 Projects

Performing complex calculations more effeciently

- Using Various Excel Functions and executing in Dynamic Projects
- Organizing and analyzing large volumes of data
- Creating MIS Report
- Designing and using templates
- Consolidating and Managing data from multiple workbooks
- Writing conditional Expression (using if)
- Using Logical Functions (AND,OR, NOT)
- Using Logical & Reference function (VLOOOKUP, HLOOKUP, XLOOKUP)
- Nested VLOOKUP with Exact Match
- VLOOKUP with Tables, Dynamic Ranges
- Nested VLOOKUP with Exact Match
- Using VLOOKUP to Consolidate Data from Multiple Sheets
- Advanced Formatting: Using Conditional Formatting Option for Rows Columns & Cells

- Formatting & Customizing Pivot Tables
- Using Advanced Options Of Pivot Tables, Pivot Charts
- Consolidating data from Multiple Sheets
- Using External data Sources
- Using data consolidation features on consolidate data
- Show Value as (% Row, % of Column Running Total Compare with Specific Field)
- Viewing Subtotal under Pivot
- Advanced date & time Functions
- Data Validation in Financial Functions
- Advanced Shortcut Keyboard Commands
- Create forms with Radio Buttons, Selection Tools Other programming tools Creating Slicers

WHO CAN LEARN ?

- Anyone who want to become expect in accounting calculations
- Anyone who enjoy math's and want to apply it to business.
- Anyone looking for Career Opportunities in accounts and finance
- Students who are currently in college or university

CAREER OPPORTUNITIES

- Corporate financial analysts
- Corporate securities research analysts
- Corporate statistical financial analysts
- Risk analysts
- Securities analysts
- Ratings analysts
- Fund managers

And Many More…

PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

ENROLL

FACILITIES OFFERED

- Practical Training on Live Projects
- 100% Placement Guarantee
- Interview Preparation
- Global Certification
- Fully Functional Labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training

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