SQL SCHOOL
Premium Quality Training

Tableau Data Analyst

100% Hands-On, Job Oriented

What is Data Analysis?

Data Analysis is an art to understand the data, identify hidden trends of data. This involves Data Presentation, Data Classification and Detailed understanding of data.

How to become a Data Analyst with AI?

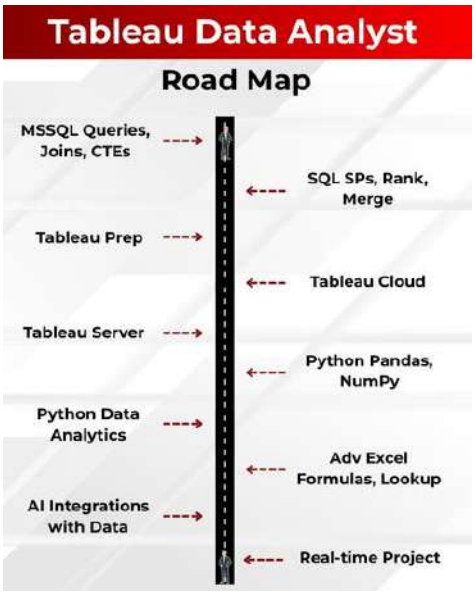
Step 1: Learn Database Concepts & SQL (From Scratch, step by step)
Step 2: Learn **Power BI or Tableau (In Detail, with our Realtime Scenarios & Projects)**
Step 3: Learn **Python (From Data Analytics. In detail. Programming NOT needed).**
Step 4: Become a Certified Data Analyst From Microsoft / Tableau. We shall guide you for the exam !

Who can join this course?

Anyone. We start the classes from scratch, right from Basics of Data, Database, Analysis.
Then proceed for Scenario based activities and job orientation with Realtime Project.

Data Analyst Training with Tableau:

- **Module 1: Oracle PLSQL**
  3 Weeks; 2 Realtime Case Studies
- **Module 2: Tableau**
  4 Weeks; 4 Realtime Case Studies
- **Module 3: Python Analytics**
  3 Weeks; 1 Realtime Case Study
- **Module 4: Realtime Projects**
  Includes Advanced Excel
  1:1 Resume
  1:1 Mock Interview



🔥 Detailed Course Content 🔥

This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready !

Module 1: Database Fundamentals, Oracle PLSQL Queries

Ch 1: Database, DBMS

- ✓ **Database Introduction**
- ✓ **Database Types, Purpose**
- ✓ **DBMS & Realtime Use**
- ✓ **Databases: Advantages**
- ✓ **DBMS Technologies**
- ✓ **Oracle DBMS: Intro**

Ch 2: Oracle Installation - 1

- ✓ **Oracle Introduction, Features**
- ✓ **Oracle Advantages, Usage**
- ✓ **Oracle Versions and Editions**
- ✓ **Oracle Installation Guidance**
- ✓ **Pre-Requisites and Precautions**
- ✓ **Oracle SQL Command prompt**
- ✓ **Connect SQL Developer Tool**
- ✓ **New Users, Permissions, Grants**

Ch 3: Oracle Installation - 2

- ✓ **Installation Verifications**
- ✓ **Installation Precautions**
- ✓ **Locking, Unlocking Users**
- ✓ **Password Resets**
- ✓ **Authentication Options**
- ✓ **SQL* Plus Technology**
- ✓ **Oracle System user in Oracle**
- ✓ **Default Sysdba user**

Ch 4: Introduction to DBMS

- ✓ **Features of RDBMS**
- ✓ **Advantages of RDBMS**
- ✓ **E.F Codd Rules for RDBMS**
- ✓ **Normalization Concepts**
- ✓ **Client Server Architecture**
- ✓ **Oracle Versions**
- ✓ **SQL & SQL*PLUS**

Ch 5: OLTP & OLAP

- ✓ **Database Types: OLTP & OLAP**
- ✓ **Real-world Advantages**
- ✓ **Relational Database Model**
- ✓ **Database Entities and Attributes**
- ✓ **RDBMS Databases: Usage**
- ✓ **Oracle DB OLTP Features**
- ✓ **Oracle an OLAP Features**

Ch 6: SQL COMMANDS - I

- ✓ **Structured Query Language**
- ✓ **SQL Operations in Realtime**
- ✓ **Possible Operations with SQL**
- ✓ **Data Definition Language**
- ✓ **Data Retrieval Language**
- ✓ **Data Manipulation Language**
- ✓ **Transaction Control Language**

Ch 7: SQL Commands - II

- ✓ **Security & Privileges (DCL)**
- ✓ **Queries and Statements**
- ✓ **Real-world uses of SQL**
- ✓ **Creating Users and Tables**
- ✓ **Table Inserts, Validations**
- ✓ **Data Types, DESCRIBE**
- ✓ **DDL Commands**
- ✓ **CREATE, ALTER, TRUNCATE**
- ✓ **DROP, RENAME**

Ch 8: Special Operations in SQL

- ✓ **SQL Operators**
- ✓ **SET, AND, OR, NOT, IN**
- ✓ **Special Operators – IN (NOT IN)**
- ✓ **BETWEEN (NOT BETWEEN),**
- ✓ **Arithmetic & Logical Operators**
- ✓ **Operator Precedence**
- ✓ **UNION, UNION All & LIKE**
- ✓ **INTERSECT, MINUS, etc..**
- ✓ **IS NULL (IS NOT NULL)**

Ch 9: Transaction Types

- ✓ **DCL and TCL Commands**
- ✓ **Transactions in Databases**

- ✓ **Transaction Types and Uses**
- ✓ **Commit and Rollback**
- ✓ **Transactions with SavePoints**
- ✓ **Read Consistency with SQL**
- ✓ **Transaction types in Oracle?**
- ✓ **Realtime use of Transactions**
- ✓ **Auto Commit, Explicit, etc..**

Ch 10: Grouping Query Results

- ✓ **Distinct Values in Tables**
- ✓ **Group, Aggregate function**
- ✓ **Group By Statement Syntax**
- ✓ **Group By Operations in SQL**
- ✓ **Having with Group By**
- ✓ **Order By Clause, Group By**
- ✓ **Grouping() Function Usage**

Ch 11: Single Row Function

- ✓ **Order By Clause and Group By**
- ✓ **SQL Group By Statement**
- ✓ **Arithmetic, Character Functions**
- ✓ **Date & Time, String Function**
- ✓ **Conversion, Analytical Functions**
- ✓ **Rank,Dense_Rank,Row_Number**
- ✓ **NVL(),NVL2(), NullIF(),Coalesce()**

Ch 12: Constraints & Keys - I

- ✓ **Importance of Data Integrity**
- ✓ **Data Integrity constraints**
- ✓ **Types of Integrity Constraints**
- ✓ **Domain Integrity Constraints**
- ✓ **Entity Integrity Constraints**
- ✓ **Referential Integrity**
- ✓ **Check & UNIQUE**

Ch 13: Constraints & Keys - II

- ✓ **PRIMARY KEY Constraint**
- ✓ **FOREIGN KEY Constraints**
- ✓ **Column Level & Table Level**
- ✓ **Adding Constraints**
- ✓ **Self-Referential Integrity**
- ✓ **Cascading Keys in Realtime**
- ✓ **Use Case Scenarios**

Ch 14: Queries & Joins - I

- ✓ Joins and Table Comparisons
- ✓ SET Operations with Joins
- ✓ How do Joins work in SQL?
- ✓ Equi Join, Simple Join
- ✓ Inner Join and Query Conditions
- ✓ Cross Join (Cartesian Join)
- ✓ Join syntax and Ansi Syntax
- ✓ Non-Equi Join and Self Join

Ch 15: Queries & Joins - II

- ✓ Outer Joins – Types
- ✓ Cross Joins – Advantages
- ✓ Merge Joins, Sub Queries
- ✓ Join Aliases and Conditions
- ✓ Inner Self Joins with HAVING
- ✓ JOINS and GROUP BY Queries
- ✓ Inner Join and Self Join
- ✓ Realtime Use Cases

Ch 16: Views

- ✓ Understanding Views & Use
- ✓ Relational, Standard Views
- ✓ SIMPLE, COMPLEX VIEWS
- ✓ Column Definitions
- ✓ VIEWS for DML Operations
- ✓ Forced, CHECK Constraints
- ✓ READ ONLY VIEWS – Use
- ✓ Indexed Views

Ch 17: Synonyms, Sequences

- ✓ Sequences, with Synonyms
- ✓ Use of Synonym in Oracle?
- ✓ Views Versus Synonyms
- ✓ Table Synonyms Usage
- ✓ Public and Private Synonyms
- ✓ Synonym Identification Options
- ✓ Realtime Use of Synonyms
- ✓ Synonyms: Limitations

Ch 18 : Sub Queries

- ✓ Sub Queries in Real-world
- ✓ Conditions with Sub Queries

- ✓ Sub Queries, Nested Queries
- ✓ Nested Sub Query Execution
- ✓ Inner and Outer Queries
- ✓ Sub Queries and HAVING
- ✓ Performance Impact
- ✓ Retrieval of Nth Row

Ch 19: Realtime Case Study (Ecommerce / Medicare)

Module 2: Tableau

CHAPTER 1: TABLEAU INTRO, INSTALLATION

- ✓ Introduction to Tableau
- ✓ Report Types in Real-time
- ✓ Data Sources for Report Design
- ✓ Tableau as a Self Service BI
- ✓ Tableau Features
- ✓ Power BI Licensing Plans

CHAPTER 2: TABLEAU ARCHITECTURE

- ✓ Data Sources, Connectors
- ✓ Tableau Clients
- ✓ Tableau Server Components
- ✓ VizQL Server & Data Engine
- ✓ Backgrounder, Data Server
- ✓ Fast Data Engine
- ✓ Gateway Components

CHAPTER 3: TABLEAU INTRO, INSTALLATION

- ✓ Tableau Public Desktop
- ✓ Report Development
- ✓ Data Sources Types
- ✓ Tableau Prep Tools
- ✓ Data Modelling
- ✓ Drilldown Reports

CHAPTER 4: TABLEAU REPORTS & JOINS

- ✓ Data Search
- ✓ Alias, Bins, Workbooks
- ✓ Bookmarks, Calculations
- ✓ Tableau File Type
- ✓ Pages, Rows, Columns
- ✓ Joins in Tableau Sources
- ✓ Inner, Left / Right Outer Joins

CHAPTER 5: TABLAU REPORT DESIGN

- ✓ **Cross Tabs, Dashboards,**
- ✓ **Visual Sync**
- ✓ **Sets, Marks, Workbooks**
- ✓ **Data Pane, Dimensions**
- ✓ **Extract, Filters**

CHAPTER 6: BIG DATA ACCESS, BLENDING

- ✓ **SQL Data Access**
- ✓ **Remote Data Sources**
- ✓ **Remote Joins**
- ✓ **SQL Queries in Tableau**
- ✓ **Data Blending**
- ✓ **Multiple Data Sources**
- ✓ **Combine, Aggregations**
- ✓ **Data Grouping**
- ✓ **Tableau Operators**

CHAPTER 7: TABLEAU CALCULATIONS

- ✓ **Tableau Calculations**
- ✓ **Numerical Calculations**
- ✓ **Aggregated Calculations**
- ✓ **Calculations From Shelves**
- ✓ **Calculation Edits, Identifications**

CHAPTER 8: STRING, DATE FUNCTIONS

- ✓ **Tableau Functions**
- ✓ **String Functions**
- ✓ **Date Functions**
- ✓ **Time Functions**
- ✓ **Aggregation Functions**
- ✓ **Other Functions**

CHAPTER 9: TABLE CALCULATIONS

- ✓ Calculations For Year, Quarter, Month
- ✓ Custom Calculations
- ✓ Data Appending
- ✓ Custom Date and Time Formats
- ✓ Calculations Reuse and Edits
- ✓ Date and Time Conversions
- ✓ Running Total
- ✓ Row Number, Case Statements

CHAPTER 10: LOD CALCULATIONS

- ✓ Table Calculations
- ✓ Level of Details

- ✓ Table Calculations
- ✓ Partitioning, FIXED LOD
- ✓ INCLUDE LOD Expressions
- ✓ EXCLUDE LOD Expressions

CHAPTER 11: TABLEAU VISUALIZATIONS - 1

- ✓ Tableau Visualizations
- ✓ Tableau Bar Charts
- ✓ Horizontal & Colored Charts
- ✓ Interactive Charts & Filters
- ✓ Continuous Charts
- ✓ Dual Line Chart, Area Charts
- ✓ CrossTab Charts, Pie Charts

CHAPTER 12: TABLEAU VISUALIZATIONS - 2

- ✓ Divergence, Color Palettes
- ✓ Box & Wishker Plots
- ✓ Text Tables;
- ✓ Heat Maps, Treemaps
- ✓ Motion Charts
- ✓ Bullet Graphs

CHAPTER 13: TABLEAU FILTERS

- ✓ Tableau Filters
- ✓ Extract Filters, TDE (hyper)
- ✓ twb Files, History, TDE
- ✓ Context Filters
- ✓ Dimension Filters
- ✓ Measure Filters
- ✓ Filters Scope and Quick Filters

CHAPTER 14: PARAMETERS, SETS

- ✓ Tableau Parameters
- ✓ Parameters, Conditions
- ✓ Calculations, Dynamic Filters
- ✓ Dynamic Dimensions
- ✓ Dynamic Measures With Sets
- ✓ IN and OUT Concepts

CHAPTER 15: TABLEAU FORECASTS, ACTIONS

- ✓ Tableau Trend Lines
- ✓ Reference Lines
- ✓ Forecasts, Exponential Smoothing
- ✓ Forecasts, Bookmarks

- ✓ Tableau Action Types
- ✓ Static/Dynamic Actions
- ✓ URL and Parameter Action Types
- ✓ Tableau Actions & Dashboards

CHAPTER 16: DASHBOARDS & STORIES

- ✓ Dashboards and Stories
- ✓ Building Dashboards
- ✓ Legends and Quick Filters
- ✓ Floating Layouts
- ✓ Layout Containers
- ✓ Dashboard Extensions, API
- ✓ Device Designer
- ✓ Customizing Layouts
- ✓ Bollinger Bands

CHAPTER 17: Tableau Prep

- ✓ Installation ETL
- ✓ Tableau Desktop Store
- ✓ Server Store

CHAPTER 18: TABLEAU SERVER

- ✓ Tableau Server - Architecture
- ✓ Installation Process
- ✓ Workbook, Sharing and Layouts
- ✓ Custom Layouts
- ✓ Tableau Online Vs Table Server
- ✓ Device Layouts in Tableau Online

CHAPTER 19: COLLOBORATE TABLEAU ONLINE

- ✓ Tableau Online, LIVE Reports
- ✓ Projects and Workbooks
- ✓ Report Views in Tableau Online
- ✓ Searching Content
- ✓ Account Settings, Drill Down
- ✓ Sharing, Subscription
- ✓ Web Authoring
- ✓ Phone Marks and Maps

CHAPTER 20: MANAGE TABLEAU SERVER

- ✓ Tableau Server - Administration Concepts
- ✓ Tableau Sites, Users, Groups Security

- ✓ Group Rules, Web Edits
- ✓ Project Permission and Locking
- ✓ Data Security with user Filters
- ✓ Filters and Hybrid Models in Server
- ✓ Access Roles, Schedules, Extraction
- ✓ TSM : Tableau Services Manager
- ✓ GUI and CLI; Backups and Restores
- ✓ Tabcmd : Imports; Tabcmd

CHAPTER 21: REAL-TIME PROJECT (ECommerce / Banking / Finance)

Module 3: Python (For Data Analysts)

Ch 1: Python Introduction

- ✓ Python Introduction
- ✓ Python Versions
- ✓ Python Implementations
- ✓ Python Installations
- ✓ Python IDE & Usage
- ✓ Jupyter Notebooks

Ch 2: Python Operations

- ✓ Basic Operations in Python
- ✓ Python Scripts, Print()
- ✓ Single, Multiline Statements
- ✓ Python: Internal Architecture
- ✓ Compiler Versus Interpreter

Ch 3: Data Types & Variables

- ✓ Integer / Int Data Types
- ✓ Float, String Data Types
- ✓ Sequence Types: List, Tuple
- ✓ Range, Complex & memview
- ✓ Retrieving Data Type: type()

Ch 4: Python Operators

- ✓ Arithmetic, Assignment Ops
- ✓ Comparison Operators
- ✓ Operator Precedence
- ✓ If ... Else Statement, Pass

- ✓ Short Hand If, OR, AND
- ✓ ELIF and ELSE IF Statements

Ch 5: Python Loops, Iterations

- ✓ Python Loop & Realtime Use
- ✓ Python While Loop Statement
- ✓ Break and Continue Statement
- ✓ Iterations & Conditions
- ✓ Exit Conditions & For Loops
- ✓ iter() and Looping Options

Ch 6: Python Functions

- ✓ Python Functions & Usage
- ✓ Function Parameters
- ✓ Default & List Parameters
- ✓ Python Lambda Functions
- ✓ Recursive Functions, Usage
- ✓ Return & Print @ Lamdba

Ch 7: Python Modules

- ✓ Import Python Modules
- ✓ Built In Modules & dir
- ✓ datetime module in Python
- ✓ Date Objections Creation
- ✓ strftime Method & Usage
- ✓ imports & datetime.now()

Ch 8: Python User Inputs & TRY

- ✓ Try Except, Exception Handling
- ✓ Raise an exception method
- ✓ TypeError, Scripting in Python
- ✓ Python User Inputs
- ✓ Python Index Numbers
- ✓ input() & raw_input()

Ch 9: Python File Handling

- ✓ File Handling, Activities
- ✓ Loop, Write, Close Files
- ✓ Appending, Overwriting
- ✓ import os, path.exists
- ✓ f.open, f.write
- ✓ f.read, f.close

Ch 10: Pandas DataFrames 1

- ✓ Installation of Pandas
- ✓ Python Modules & Pandas
- ✓ Pandas Codebase & Usage

- ✓ import pandas.DataFrame
- ✓ Pandas Series, arrays

Ch 11: Pandas DataFrames 2

- ✓ Indexes & Named Options
- ✓ Locate Row and Load Rows
- ✓ Row Index & Index Lists
- ✓ Load Files Into a DataFrame
- ✓ df.to_string() Function
- ✓ tail() & null() Function

Ch 12: Pandas Transformations

- ✓ Pandas - Cleaning Data
- ✓ Replace, Transform Columns
- ✓ Data Discovery & Column Fill
- ✓ Identify & Remove Duplicates
- ✓ dropna(), fillna() Functions
- ✓ Data Plotting & matlib Lib

Ch 13: Realtime Project (Banking / Finance) For Data Analysis [End to End]

Ch 14: Weekly Mock Interview Review meet ++ 1:1 Resume Meet

🔥 **For free demo**: Reach us on Call/WhatsApp @ +91 9666 64 0801 / +91 9666 44 0801

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Thank you for your time, wish you all the very best!!