
DATA ANALYST SYLLABUS

2024

INSTRUCTOR INFORMATION

Instructor

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Industry Exp / Teaching Exp

5 years / 4 years

GENERAL INFORMATION

DESCRIPTION

This is Completely Online Course for Data Analyst for who having Career gap, Working Professional, non-IT to IT, non-Tech to Tech & latest degree pass-out

EXPECTATIONS AND GOALS

You might love all these modules and syllabus as much as we do. Its also easy to get exactly what you want. Improve your Skills and achieve your dream goal.

COURSE OFFERS

- Real Time Projects
- Daily Tasks
- Interview Preparation Questions
- Mock up - 2
- Placement Assist

COURSE SCHEDULE

DURATION - 2 MONTHS

SQL

Module 1

Topic - Introduction

Intro about MySQL

MySQL Features

MySQL Advantages

Download and Installation

Module 2

Topic - Database

Create Database

Drop Database

Show Databases

Select Database

Module 3

Topic - Table & Views

Create Tables

Drop Tables

Show Tables

Alter Tables

Insert Records

Delete Record(s)

Topic - Table & Views

Truncate Table

Copy & View Tables

Module 4

Topic - Constraints

What are Constraints?

Types of Constraints

Import Data

Update Query

Delete Query

Select Query

Module 5

Topic - Clauses

Where clause

AND, OR

IN & between

Like Statement

Limit the record

Order by Clause

Group by Clause

Having Clause

Module 6

Topic - Flow Function

IS NULL

IS NOT NULL

CASE Statement

IF Statement

Module 7

Topic - Joins

What is Joins?

Types of Joins

Inner Join / Join

Left Join

Right Join

Natural Join

Full Join

Cross Join

Module 8

Topic - Aggregate & Operators

Count ()

Sum ()

Avg ()

Max ()

Min ()

Topic - Aggregate & Operators

Sub-Queries ()

Index

Exists

Show first record and last record

Concatenate ()

Round ()

Module 9

Topic - Set Operators

Union

Union All

Intersect

Except

Module 10

Topic - Keys

Primary Key

Foreign Key

Composite Key

Module 11

Topic - Window Function

Ranking Function

Analytical Function

Cast & convert

Alias

Module 12

Topic - Stored Procedure

IN

OUT

IN OUT

Module 13

Topic - Functions

Date & Time Functions

String Function

Numerical Function

Power BI

Module 1

Topic - Introduction

Intro about Power BI

PBI Features

PBI Advantages

PBI Components

PBI Architecture

Sample Dashboard

Download and Installation

Module 2

Topic - Types of Charts

All Bar & Columns Charts

Pie Charts

Donut Charts

Funnel Charts

Scatter and Bubble Charts

Module 3

Topic - Map

Types of Map Charts

Map with Pie Charts

Formatting Maps

Module 4

Topic - Table and Matrix

Table Charts

Formatting Tables

Conditional Formatting in Table

Aggregate Functions in Table

Matrix Charts

Conditional Formatting in Matrix

Aggregate Function in Matrix

Matrix Hierarchies

Module 5

Topic - Cards

Types of Cards

Text Cards

Formatting Cards

Date Cards

Number Cards

Module 6

Topic - Filters

Types in Filters

Filters on Visual

Filters in Page

Filters in all Pages

Drill through in Pages

Module 7

Topic - Slicers

Types in Slicers

Text Slicers

Formatting Slicers

Date Slicers

Hierarchies in Slicers

Number Slicers

Sync Slicers

Module 8

Topic - Advanced Charts

Drill down Donut & Combo Charts

Word Cloud

Sankey Charts

Play Axis

Scroller

Animated bar Charts

Module 9

Topic - Line Charts

Line Charts

Area Charts

Ribbon Charts

Module 10

Topic - Charts & Architect

Water Fall Charts

Guage

KPI

Tree Map

Insert Image, Buttons and Types

Shapes and Types

Insert Text box

Web URL action

Page Navigations

Module 11

Topic - Text Functions

Merge

Split and Trim

Upper & Lower

Prefix and Suffix

Left, Right & Mid

Extract data from delimiter

Module 12

Topic - Date Function

Year

Quarter

Month

Day

Hour, Minute, Second

Age

Module 13

Topic - Column from Example

Split & Merge Text

Alphanumeric

Date column

Module 14

Topic - Conditional Column

One Column

Two Column

Compare Column

Date Comparison

Module 15

Topic - DAX

Intro about DAX

Data Modeling

Basic DAX Function

Module 16

Topic - DAX Functions

Date Functions in DAX

Text Functions in DAX

Logical Functions in DAX

Module 17

Topic - Measure

Columns vs Measures

Types of Measures

Analyze using Measures

Module 18

Topic - Time Intelligence Function

Previous day, month, qtr., year

Next day, month, qtr., year

Date-add function

MTD, QTD, YTD

Filter Function

Calendar, Calendar auto ()

Module 19

Topic - PBI Services

Sample Report Creation

Publish to PBI service account

Export into PPT, PDF

Dashboard

Quick Insights

Automatic Refresh using Gateway

Module 20

Topic - Additional Topics

What is Data Flow?

Parameters, IF Parameter

Dynamic Titles

Cross report drill through

Extract data from web, server etc..

AI in BI

Module 21

Topic - Important Topics

Remove rows and Keep rows

Replace Errors and Values

Remove and Go to Columns

Fill up and down

Grouping

Transpose

Pivot and Unpivot Columns

Python

Module 1

Topic - Introduction

What is Python?

Advantages

Download and install

Basics

Comments

Variables

Module 2

Topic - Data Types

Types of Data

Numeric Data Type

String Data Type

List Data Type

Tuple Data Type

Set Data Type

Dictionary Data Type

Taking input (s) from user

Formatting Output

Format ()

Module 3

Topic - Operators

Arithmetic Operator

Comparison Operator

Logical Operator

Assignment Operator

Membership Operator

Identity Operator

Module 4

Topic - Flow Control

If, If-elif, If-elif-else

Break statement

Continue statement

For loop

While loop

Module 5

Topic - Function & OOP's

Create Function

Calling Function

Arguments

Number of Arguments

Arbitrary Arguments *args

Topic - Function & OOP's

Keyword Arguments

Arbitrary Keyword Arguments **kwargs

Class and Objects

Module 6

Topic - File Handling & Exception

Open a File

Read a File

Write a File

Print the File

Close a File

Exception - Try and Except

Module 7

Topic - Numpy

Array

Indexing

Slicing

Copy and View

Array Join

Split

Search

Sort

Create Table in Numpy

Module 8

Topic - Pandas

What are Pandas?

Series

DataFrame

Read CSV

Create Table using Pandas

Variables

Module 9

Topic - Data Visualization

Line Chart

Markers, Labels, Colors, Grid

Sub Plots

Scatter

Bar Chart

Pie Chart

Excel

Module 1

Topic - Basic to Advance

Conditional Formatting

Advance Filter

Data Sorting

Data Validation

Data and Time Function

Text Function

Charts and Types

Lookup, Hlookup, Vlookup

IF Conditions

Sum, Sumif, Sumifs

Count, Countif, Countifs

Pivot Table

Slicer

Index

Match

Goal Seeks

Cell References

Top Shortcuts
