Qlik Sense Designer and Developer Course

1. **Introduction to Qlik Sense**

What is Qlik Sense?

Architecture of Qlik Sense

- Different components of Qlik Sense

Qlik Sense Desktop Vs Qlik Sense Enterprise Vs Qlik Sense SAAS Enterprise(Cloud)

Installation of Qlik Sense Desktop

Basics of Data base

Basics of Data warehouse

2. **Association in Qlik Sense**

What is Association and its importance in Qlik Sense?

What is AQL?

How does AQL work while loading data?

How does AQL work in Front end/UI?

What are selected, associated and non-associated values?

What are the different color coding used with reference to associations

What are Density/Information(Density) and subset ratio?

How Density and subset ratio are useful in Qlik Sense?

3. **Project – Scenario**

Explanation of the project use case used in the project

Project data

Explanation of the tables, joins among them and understanding the data

4. **Loading of data in Qlik Sense**

How to load data into Qlik Sense

- Data load editor
- Data Manager

Creating a data connection

Lab - How to load data into Qlik Sense from files?

Lab - How to load data into Qlik Sense from a database?

5. **Project folder setup**

Folder structure in Qlik Sense projects

Two Tier vs Three Tier

Extracting data from sources

Transformation of data

Data model creation

UI creation/Presentation application creation

storage of data in qvds

Reuse of a data model into multiple presentation applications

Lab - Creating a folder structure for the project.

6. QVD – Qlik Data files

What is a qvd?
Advantages of qvds in Qlik architecture
How to create qvds?
Lab - How to create, store and load qvds.

UI/Visualizations in Qlik Sense - I

7. **Qlik Sense Desktop walk through**

What is an Asset Panel in Qlik Sense?
What is a sheet?
What is a visualization/object?
What is a dimension?
What is a measure?

8. **charts in Qlik Sense**

What are the different charts available in Qlik Sense?
What is a dimension?
What is a measure/expression?
Lab - Creation of different charts?

9. **Alternate dimensions & alternate measures**

What is an Alternate dimension?
What is an Alternate measure?
What is the use case of it and How to create them?
Lab – Demonstration of Alternate dimensions & measures

10. **Styling of apps**

How can a Qlik Sense application styled for good looking?
What are the themes in Qlik Sense and how to apply them in a Qlik Sense application?
Lab – Apply styling of apps to current project

11. **Master Items**

What is the use case of Master Items in Qlik Sense?
What are the different Master items available in Qlik Sense?
What is a Master Dimension?
  • What is a Drill Down group?
What is a Master Measure?
What is a Master Visualization?
Lab – Creation of Master items for current project

12. **Extensions (Custom objects)**

What are extensions in Qlik Sense?
How to import extensions into Qlik Sense?
What are the default extension libraries available in Qlik Sense?
Lab – How to download third party extensions

13. **BookMarks**

What is a bookmark in Qlik Sense?
How to create a bookmark?

14. **Variables**

What is the use of a variable in Qlik Sense?
Types of Variables

- Script variables
  - ➢ SET variables
  - ➢ LET variables
- UI variables

What is $ expansion?
Use of '=' in variable definition
Lab – Usage of variables in current project

15. **Set Analysis**

What is set analysis?
What are components of set analysis?
Modifiers

- Static values
- Dynamic values
- How to use variables for giving values to Modifiers
- How to use functions for giving values to Modifiers
- What is $ expansion in set analysis
- What is $$ expansion in set analysis and where it is used
- Using relational expressions to give values to Modifiers

Identifiers

- $ - Current Selection
- 1 - Ignore selections or (for all identifier)
- Ignore selections in specific fields

Operators

- What are different operators in Qlik Sense used in Set analysis?
- Shorthand Operators

Set analysis with Dimensions

Lab – Using set analysis in current project

16. **Alternate States**

- What is the use case of Alternate states - Comparatative Analysis
- Creation of Alternate states
- How to apply Alternate states to objects/Sheets?
- What are the different alternate states available by default?

Lab – Demonstration of Alternate states

17. **Maps in Qlik Sense**

How to create a Map visualization in Qlik Sense?
Lab – Demonstration of Maps in current project

18. **Story telling**

What is the use case of story telling feature in Qlik Sense?
How to create a story?

19. **Buttons and Actions**

Data modeling in Qlik Sense – II

20. **Different types of loads in Qlik Sense**
What are the different loads available in Qlik Sense?
Different Join types in Qlik.
Lab – Demonstration of different loads

21. **Include statement**
What is an Include statement and Use case of it?

22. **Concatenation**

What is concatenation command?

Types of concatenation?
- Automatic concatenation
- Forced Concatenation

Lab – Demonstration of different types of concatenation

23. **Data modeling issues in Qlik Sense**

What are the data modeling issues faced in Qlik Sense?
- Synthetic keys
- Circular references

Lab – Demonstration of data modeling issues

24. **Linking table**

    What is a linking table?
    Scenarios on linking tables?
    Lab – Linking table scenario in current project

25. **Interval Match**

    What is Interval match?
    Use case of interval match?

Functions - III

26. **Functions in Qlik Sense**

- Functions in UI - 1
- Functions in script – 2

Lab – Examples for different types of functions

27. **Master calendar and its importance**

- What is importance of Master calendar in a Qlik project?
- How to create master calendar in current project?
- How to create master calendar with multiple date columns?

Lab – Master calendar scenario in current project

28. **Incremental load**

- Use case of incremental load in a Qlik project?
- How to implement incremental load?
- What are the various scenarios of incremental load?

Lab – Incremental load scenario usage case demo

29. **What is data reduction in Qlik Sense?**

- What are Section access and Section application keywords?
- What are the default fields to be used in Section access?
- What is a data reduction field in section access?
- What is the use of Omit keyword in section access?

Lab – Show case of different data reduction options

30. **Publishing a Qlik Sense document to Qlik Sense server**

- How to deploy a Qlik Sense application into Server
- How to provide access to user for an application
- What is QMC and what is its importance in Qlik Sense administration?

*** Note : This course doesn't focus on Qlik Sense administration ***