Google Cloud

Looker Developer Deep Dive

LookML not only serves as the foundation for visualization assets in Looker, but is also capable of dynamic aggregations, incrementally refreshed persistent derived tables, and more. In this course you will practice the skills to be an advanced Looker Developer through guided lectures and independent exercises using sample data.

DURATION
2 days

LEVEL
Advanced

FORMAT
Instructor led

What you'll learn

- Customize and incrementally refresh SQL and native derived tables
- Incorporate Liquid for dynamic SQL, formatting, templated filters, and parameters in Looker
- Use extends and refinements in Looker to modularize and organize your LookML
- Troubleshoot LookML code and improve performance
- Apply Looker best practices to your LookML projects
- Manage Looker deployments using DevOps practices
- Embed Looker content into web applications

Overview	7 modules · 6 labs
Who this course is for	Customers
Products	Looker
Prerequisite	Completion of the "Developing Data Models with LookML" course or the equivalent experience in using LookML for development in Looker.

Module 01   Looker Admin and LookML Fundamentals

Topics
- Looker Review
- Roles and User Attributes
- Connecting to a Database
- LookML Review

Objectives
- Review key concepts of Looker and LookML development
- Describe roles and user attributes in Looker
- Explain how to connect your Looker instance to a database

Activities   Lab: Starter LookML Cleanup

Module 02   Diving Deeper into Derived Tables

Topics
- Understanding Derived Tables
- Adding Persistence
- Refreshing Incrementally
- PDTs and Performance

Objectives
- Define derived tables and advantages of native derived tables
- Maintain derived tables in Looker
- Describe performance implications of different PDT options

Activities   Lab: Extending LookML with PDTs and Aggregate Tabl

Module 03   Creating Dynamic LookML with Liquid

Topics
- Core Liquid Concepts and Syntax
- Custom Links, Drills, and Formatting

Topics	• Templated Filters, Parameters and Dynamic SQL
Objectives	• Core Liquid Concepts and Syntax
	• Custom Links, Drills, and Formatting
	• Templated Filters, Parameters and Dynamic SQL
Activities	Lab: Enhancing LookML Flexibility with Liquid

Module 04   Creating Modular LookML

Topics	• Extensions
	• Refinements
	• Manifests and Localization
Objectives	• Use extends and refinements in Looker to modularize and organize your LookML
	• Implement localization into your LookML models
Activities	Lab: Modularize your LookML

Module 05   Testing, Debugging and DevOps

Topics	• Leverage your IDE
	• Debugging and Common Errors
	• Data Tests
	• Looker and DevOps
Objectives	• Utilize the Looker IDE to ease development and debugging of LookML.
	• Write data tests to ensure validity of your Looker dashboards
	• Understand DevOps best practices in Looker
Activities	Lab: Testing and debugging LookML

Module 06   Looker Best Practices

Topics	• Looker Best Practices
	• Improving Performance
Objectives	• Understand Looker best practices
	• Implement best practices in LookML to improve performance
Activities	Lab: Implementing LookML Best Practices

Module 07   Embedded Looker Analytics

Topics
- Explore Embedded Looker Options
- Using Private and SSO Embedding

Objectives
- Explore options for embedding Looker content
- Understand how to use private and SSO embedding