Developing Data Models with LookML

Category: AI, Data & Analytics | **Vendor:** Google Cloud

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course empowers you to develop scalable, performant Looker Modeling Language (LookML) models that provide your business users with the standardized, ready-to-use data that they need to answer their questions. Upon completing this course, you will be able to start building and maintaining LookML models to curate and manage data in your organization’s Looker instance.

About This Course

This course empowers you to develop scalable, performant Looker Modeling Language (LookML) models that provide your business users with the standardized, ready-to-use data that they need to answer their questions. Upon completing this course, you will be able to start building and maintaining LookML models to curate and manage data in your organization’s Looker instance.

Who Should Attend

This course is primarily intended for the following participants:

- Data developers who are responsible for data curation and management within their organizations.
- Data analysts interested in learning how data developers use LookML to curate and manage data in their organization’s Looker instance.

Prerequisites & Entry Requirements

General Prerequisites:

To get the most out of this course, participants should have a basic understanding of SQL, Git, and the Looker business user experience. For learners with no previous experience as data explorers in Looker, it is recommended to first complete Analyzing and Visualizing Data in Looker.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Define LookML basic terms and building blocks.
- Model new dimensions and measures using LookML.
- Use dashboards to combine key queries and visualizations into a one-page executive view.
- Model files of LookML projects to design and build custom Explores for business users.
- Use derived tables to create new custom tables that do not exist in the underlying database.
- Explain how caching works and how developers can use datagroups to manage caching policies.

Detailed Course Outline

Module 1 - Introducing Looker and LookML

Topics

- Looker and LookML
- The Looker user interface
- Example 1: The Looker IDE
- LookML project version control
- Example 2: Git workflow in Looker
- How Looker writes SQL

Objectives

- Articulate the benefits of using LookML for data modeling and analysis.

- Identify the primary components of the Looker user interface.
- Identify the target users and functions of key Looker UI elements.
- Define core Looker platform and LookML terminology.
- Understand the basic integration between Looker and Git for version control.
- Describe the LookML development lifecycle, including writing, validation, merging, and deployment processes.
- Recognize how Looker reads, parses, and writes SQL.
- Explain the relationship between SQL and the LookML modeling language.

Activities

- 2 demos
- 1 quiz

Module 2 - Data Modeling Using LookML

Topics

- Anatomy of a LookML project
- Modeling dimensions
- Example 3: Creating dimensions using LookML
- Modeling measures
- Example 4: Modeling measures using LookML
- Dimension and measure modeling logic
- LookML dashboards
- Lab 1: Creating dimensions and measures with LookML

Objectives

- Detail the hierarchical layers contained within a LookML project.
- Convert between user-defined and LookML dashboards.
- Construct dimensions and measures within a Looker Explore, defining appropriate data types, formats, and calculations.
- Locate dimensions, measures, and dashboards in the Looker IDE.
- Understand how dimensions and measures connect IDE development to Explore usage.
- Model complex dimensions for enhanced user experience in Looker.
- List the features and basic functionality of a LookML dashboard.
- Convert between user-defined and LookML dashboards.

Activities

- 1 quiz
- 2 demos
- 1 lab

Module 3 - Modeling Explores for Your Users

Topics

- Modeling new Explores
- Using LookML to filter Explores
- Understanding symmetric aggregation

Objectives

- Create new Explores and filters in the Looker IDE.

- Connect Explores and filters to end-user data exploration.

- Understand symmetric aggregation for data analysis in Looker.

Activities

- 1 quiz

Module 4 - Working with Derived Tables

Topics

- Introducing derived tables

- Types of derived tables

- Example 5: Using SQL derived tables

- Example 6: Using native derived tables

- Native derived table parameters

- Using persistent derived tables

- Caching and datagroups

- Implementing datagroups in Looker

- Lab 2: Creating Derived Tables with LookML

Objectives

- Understand derived tables, including SQL, native, and persistent types, and their respective purposes.

- Identify appropriate use cases for derived tables and select the optimal type based on specific requirements.
- Explain how derived tables enhance data analysis efficiency and effectiveness in Looker.
- Locate the creation points for SQL, and persistent derived tables within the Looker UI.
- Describe the process of creating SQL, and persistent derived tables in Looker.
- Identify the two key parameters used in native derived tables.
- Identify optional parameters for optimizing native derived table performance and functionality.
- Define caching and datagroups in the context of Looker.
- Determine when to implement caching and datagroups for query optimization.
- Evaluate the impact of caching and datagroups on overall Looker performance and user experience.

Activities

- 2 demos
- 1 quiz
- 1 lab, Introduction to Looker and LookML, Creating Dimensions and Measures, Project Version Control, Model Files, Derived Tables, Caching and Datagroups

Skills You Will Learn:

- Define LookML basic terms and building blocks.
- Model new dimensions and measures using LookML.
- Use dashboards to combine key queries and visualizations into a one-page executive view.
- Model files of LookML projects to design and build custom Explores for business users.
- Use derived tables to create new custom tables that do not exist in the underlying database.
- Explain how caching works and how developers can use datagroups to manage caching policies.

Frequently Asked Questions

Q: What delivery options are available for Developing Data Models with LookML?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Developing Data Models with LookML course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Developing Data Models with LookML training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Developing Data Models with LookML?

Yes, we provide corporate training, dedicated training, and closed classes for Developing Data Models with LookML. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Developing Data Models with LookML, Data Analysis, DDMLML, Google Cloud, vILT

Q: Why choose Nexus Human for Developing Data Models with LookML?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Developing Data Models with LookML training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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