

Module 5 Introduction: Developing Data Models & Addressing Complex Business Needs

 **Welcome!**

You're entering a new phase of the course focused on **data modeling** and solving **complex business problems**.

What You'll Learn in This Module

1. The Role of Developers in Data Teams

- Developers work with **datasets** and **data modeling languages**.
- You'll explore:
 - The **developer environment**
 - Tools used to work efficiently with data

2. Introduction to Data Modeling Languages

- Learn how modeling languages help:
 - Define **dimensions** and **measures**
 - Meet **complex business needs**
- Gain hands-on experience writing modeling code

3. Dashboards as Code

- Understand how developers **view and manage dashboards** programmatically
- Learn how this approach supports **scalability and consistency**

4. Advanced Modeling Techniques

- Explore how modeling languages support:
 - **Derived tables**
 - **Caching**
- Learn how these techniques improve performance and flexibility

Why This Matters

- Understanding the **code behind visualizations** helps you:
 - Build more powerful dashboards
 - Customize solutions for stakeholders
 - Collaborate more effectively with developers



Let's Get Started!

You're about to dive deeper into the **technical side of analytics**, giving you the tools to create **robust, scalable, and insightful data solutions**.