Data Fundamentals

This course is designed for anyone who wants to learn the fundamentals of database concepts in a cloud environment, get basic skilling in cloud data services, and build their foundational knowledge of cloud data services within Microsoft Azure. The course provides a practical, hands-on approach in which you will get a chance to see data in action and try Azure data services for yourself.

This course also prepares students to write the Microsoft DP-900 Data Fundamentals Certification exam.

Course details
- Length: 9 hours
- Course Materials:
  - *The course textbook:* DP 900 Microsoft Learn modules available online
  - *DP-900 Practice Labs:* provided through the CloudLabs lab provider. These labs are mandatory and will be used throughout the course.
- Course Requirements: None
- Recommended course cap: 40 students

Contents
1. Describe core data concepts
   - Explore core data concepts
   - Explore roles and responsibilities in the world of data
   - Describe concepts of relational data
   - Explore concepts of non-relational data
   - Explore concepts of data analytics

2. Explain concepts of relational data in Azure
   - Explore relational data offerings in Azure
   - Explore provisioning and deploying relational database offerings in Azure
   - Query relational data in Azure

3. Explain concepts of non-relational data offerings on Azure
   - Explore non-relational data offerings in Azure
   - Explore provisioning and deploying non-relational data services in Azure
   - Manage non-relational data stores in Azure

4. Identify components of a modern data warehouse and analytics infrastructure
   - Examine components of a modern data warehouse
   - Explore large-scale data analytics
   - Using Machine Learning and AI in Business