



SNOWFLAKE FOR HEALTHCARE AND LIFE SCIENCES

SNOWFLAKE ON-DEMAND TRAINING

23E17

OVERVIEW

This on-demand course provides participants with the knowledge and skills to successfully take advantage of the Snowflake capabilities that can support the healthcare and life sciences industries. Participants will use the Snowflake Data Cloud to work with healthcare data, healthcare data models, and observational studies.

KEY BENEFITS

- Flexibility to learn at your own pace and schedule.
- Remote access to content and learning materials on an unlimited basis during the Term.

ACQUIRED SKILLS

- Load electronic health record (EHR) data in the Health Level Seven (HL7) Fast Healthcare Interoperability Resources (FHIR) healthcare standard into Snowflake tables to support your data analysis.
- Query semi-structured healthcare data using Snowflake's native JSON capabilities and create tabular views that are easy to query.
- Apply Snowflake data security and governance capabilities to secure Protected Health Information (PHI) data.
- Perform observational analysis on individual and cohort patient data using the standard Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM).
- Consume data shared with you in Snowflake to provide seamless access to OMOP CDM vocabulary data for consistent analysis interpretation.
- Create visualizations and shareable dashboards to support analysis results.

WHO SHOULD ATTEND

- Healthcare Data Integration Architects
- Healthcare Database Developers
- Biomedical Informatics Data Analysts
- Biomedical Research Data Analysts
- Biomedical Informatics Data Scientists
- Clinical Data Scientists
- Clinical Informaticists
- Informatics Consultants

PREREQUISITES

- Basic knowledge of Snowflake.
- Basic knowledge of SQL.
- Basic knowledge of the Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM) standard.
- Basic knowledge of the Fast Healthcare Interoperability Resources (FHIR) standard.
- Completion of one of the following courses or equivalent knowledge: *Administering Snowflake*, *Snowflake Architect*, *Snowflake Fundamentals*, *Snowflake Data Analyst*, *Snowflake Data Engineer*, or *Snowflake Data Scientist*.

DELIVERY FORMAT

- This course is a combination of on-demand content, videos, and self-paced labs.

TOPICS COVERED

Overview of Snowflake Data Cloud for Healthcare and Life Sciences

- Healthcare challenges and how Snowflake addresses them
- Single source of truth for your healthcare data
- Elastic compute for scalability and performance
- Secure and governed data in Snowflake
- Snowflake Marketplace for healthcare and life sciences

Ingesting and Processing EHR Data

- Snowflake's support for HL7 FHIR
- Ingesting EHR data in standard FHIR format into a variant column in a Snowflake table
- Directly querying EHR data in JSON format with Snowflake's native semi-structured data support
- Using Snowflake built-in functions to flatten the FHIR nested data for data exploration and processing

Analyzing Patient Data Using the OMOP Common Data Model

- Snowflake's data sharing capabilities for seamlessly acquiring OMOP vocabulary tables
- Patient analytics using OMOP data for consistent data interpretation
- Constructing a longitudinal individual patient analysis and a patient cohort study
- Performing and sharing data analysis results and visualizations with others through dashboards

Securing Protected Health Information (PHI) Data

- Protecting access from unauthorized use while making it available to authorized roles
- Snowflake controls to redact specific PHI fields using data masking policies
- Controlling access to specific subsets of healthcare data using row access policies
- Identifying and classifying sensitive data in Snowflake
- Tracking and auditing access and usage of sensitive data

DURATION

- Three hours of content, videos, and labs.
- Snowflake will provide access to an environment with sufficient credits to complete the labs during the Term.