**Summary & Highlights**

Congratulations! You have completed this module. At this point, you know:

* Data pipelines move data from one place, or form, to another
* Data flows through pipelines as a series of data packets
* Latency and throughput are key design considerations for data pipelines
* Data pipeline processes include scheduling or triggering, monitoring, maintenance, and optimization
* Parallelization and I/O buffers can help mitigate bottlenecks
* Batch pipelines extract and operate on batches of data
* Batch processing applies when accuracy is critical, or the most recent data isn’t required
* Streaming data pipelines ingest data packets one-by-one in rapid succession
* Streaming pipelines apply when the most current data is needed
* Examples of streaming data pipelines use cases, such as social media feeds, fraud detection, and real-time product pricing
* Modern data pipeline technologies include schema and transformation support, drag-and-drop GUIs, and security features
* Stream-processing technologies include Apache Kafka, IBM Streams, and SQLStream