Your grade: 100%

Your latest: **100%** • Your highest: **100%** • To pass you need at least 70%. We keep your highest score.

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1. Which of the following data pipelines corresponds with the fraud detection use case?   **1 / 1 point**

   ○ Lambda architectures

   ○ Batch data pipeline

   ○ Micro-batch data pipeline

   ⦿ Streaming data pipeline

   > ✓ **Correct**
   > Correct, streaming data pipelines are used for fraud detection.

2. Batch data pipelines usually run periodically on fixed schedules. Which of the following is another method to run these?   **1 / 1 point**

   ○ Error occurrence

   ○ Flags

   ○ Manually

   ⦿ Triggers

   > ✓ **Correct**
   > Correct, Batch processes typically operate periodically on a fixed schedule – ranging from hours to weeks apart. They can also be initiated based on triggers, such as when the data accumulating at the source reaches a certain size.

3. Pipelines that incorporate parallelism are referred to as being _____?   **1 / 1 point**

   ○ Linear

   ○ Static

   ○ Aligned

   ⦿ Dynamic or non-linear

   > ✓ **Correct**
   > Correct, pipelines that incorporate parallelism are referred to as being dynamic or non-linear.

4. Which streaming data pipeline tool allows you to build applications using the Streams Processing Language (SPL)?   **1 / 1 point**

   ○ Apache Spark

   ○ SQLstream

   ⦿ IBM Streams

   ○ Apache Samza

   > ✓ **Correct**
   > Correct, IBM Streams lets you build real-time analytical applications using the Streams Processing Language, or SPL, plus Java, Python, or C++.

5. Which of the following data pipeline use cases is the simplest?   **1 / 1 point**

   ○ Send/receive messages

   ○ Transactional record movement

   ⦿ File backup

   ○ Raw data preparation

6. Which of the following common features of modern ETL and ELT products is known as "no-code"?   1 / 1 point

   ○ Security

   ⦿ Drag-and-drop

   ○ Data crawling

   ○ Fully automated

7. How does data flow through pipelines?   1 / 1 point

   ⦿ Data packets

   ○ Software processes

   ○ Processing threads

   ○ Files

8. Which of the following pipeline monitoring considerations affects the amount of data that passes through the pipeline over time?   1 / 1 point

   ○ Latency

   ⦿ Throughput

   ○ Utilization

   ○ Logging and alerting system

9. Latency is the total time it takes for a single packet of data to pass through the pipeline. Which of the following limits latency?   1 / 1 point

   ○ Bad data

   ⦿ Slowest process

   ○ Data leak

   ○ Small data packets

10. Micro-batch data pipelines decrease the batch size. Which of the following do micro-batch pipelines **increase**?   1 / 1 point

   ○ Storage

   ⦿ Batch process refresh rate

   ○ Latency

   ○ Simple transformation