Performance Considerations With ADO.NET

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Topics Covered

- **Chatty vs. Chunky Communications**

  - Should your application be chunky or chatty?

- **Batching Commands and Result Sets**

  - Sending multiple operations with XML and returning multiple results

- **Example**

  - Demo on how to send multiple operations with XML and using Multiple Active Result Sets (MARS)

Chatty vs. Chunky

- **Chatty**
  - High network roundtrips (ex: row-based processing)
- **Chunky**
  - Large amounts of data sent over the network (ex: return multiple result sets)
- **Which one is best?**
  - From a performance standpoint, chunky usually does better
  - However chunky operations can involve additional complexities

Chunking Techniques

- **Batching Commands**
  - SqlDataAdapter and its Batch Size option can send multiple commands in a single command (See Module 7)

- **XML Input and SET Operations**
  - Send an XML for performing a SET-based operation (vs. row-based)

- **MARS**
  - Return multiple record sets to the client in one pass

Summary

- **Chatty vs. Chunky applications**
- **Performance improvements with XML Input and SET operations**
- **Multiple Active Result Sets (MARS)**