

Using XML With ADO.NET

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Topics Covered

- **Read XML from the database**
 - Various mechanisms for reading XML using SqlCommand
- **Send XML to the database**
 - Send a value to an XML column
- **As a method for reducing roundtrips**
 - Send a batch of data for processing



Ways to Read XML Data

- **As a string (nvarchar or ntext)**
 - Receiving a valid XML as a string
- **As a single XML document**
 - Using ExecuteXmlReader
- **As a column of xml data type**
 - Using GetSqlXml() on a SqlDataReader object



Reduce Database Roundtrips

■ Objectives

- Reduce roundtrips => improves application performance
- Simplifies implementing SET-based operations
- Improves scalability



■ Technique

- Format an XML document with multiple changes
- Example:

```
<xml>  
  <log>New search for user id 1</log>  
  <log>New search for user id 3</log>  
  <log>New search for user id 7</log>  
</xml>
```

<http://tinyurl.com/md83jg7>

Summary

- Send, Receive XML documents with ADO.NET
- Xml Data Type forcing properly formatted XML documents
- XmlReader and ExecuteXmlReader for fetching XML documents
- Reduce Database Roundtrips

