

How do I set the DateTimeMode property when filling a DataTable

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I am investigating how best to manage UTC timestamps in ADO.Net. We ran into a lot of issues with DateTime serialization in .NET 1.1. With .NET 2.0, there are new properties to help identify when a DateTime (as part of a DataTable or as a regular object) is UTC or local.

I have been able to handle all cases so far except one. In our database we store all timestamps in UTC. I want to retrieve the data into a DataTable whose column has the DateTimeMode property set to DataSetDateTime.Utc. I can't figure out how to do this.

Any suggestions?

I have tried setting the DateTimeMode after the DataTable has been populated, but that causes an exception. I haven't been able to find anything in SQL Server 2005 that would allow me to specify that a DateTime column is a "UTC" DateTime.

Here is my test code. I know it is poor coding, but it is only a test. For simplicity, I just use a raw SQL statement.

```
SqlConnection conn = new  
SqlConnection(@"server=(local);database=master;uid=sa;pwd=password;");
```

```
SqlCommand cmd = new SqlCommand("SELECT GetDate() AS local,  
GetUTCDate() AS utc", conn);  
cmd.CommandType = CommandType.Text;  
SqlDataAdapter adapter = new SqlDataAdapter(cmd);  
DataTable dt = new DataTable("TryIt");
```

```
try  
{  
    adapter.Fill(dt);  
    dt.Columns["utc"].DateTimeMode = DataSetDateTime.Utc;  
    dt.Columns["local"].DateTimeMode = DataSetDateTime.Local;  
}  
catch (Exception)  
{
```

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```
throw;  
}
```

```
DateTime local = (DateTime)dt.Rows[0]["local"];  
DateTime utc = (DateTime)dt.Rows[0]["utc"];
```

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