

Date Related SQL Queries

AML is the language of Aras Innovator, but some external add-ons do connect to Aras Innovator on a direct SQL level. Because Aras Innovator stores DateTimes in SQL Server as UTC, we have provided an add-on function for Microsoft SQL Server that allows the easy conversion of DateTime to and from UTC.

To convert DateTime values from UTC to a specific time zone, use the `ConvertToLocal({value},{Time Zone})` function. The time zone should be specified according to the registry key name of the time zone desired; refer to *Aras Innovator - Configuring Internationalization*. To use the `DEFAULT` parameter for the `{Time Zone}`, it is required that a value be set for `CorporateTimeZone`.

Example:

```
select item_number, created_on
from innovator.Document
```

Would be written as:

```
select item_number, innovator.ConvertToLocal(created_on,DEFAULT) as CreadtedOn
from innovator.Document
```

Or:

```
select item_number, innovator.ConvertToLocal(created_on,'Eastern Standard Time') as CreadtedOn
from innovator.Document
```

To convert DateTime values from a specific time zone to UTC, use the `ConvertFromLocal({value},{Time Zone})` function. The time zone should be specified according to the registry key name of the time zone desired; refer to ***Aras Innovator - Configuring Internationalization***. To use the `DEFAULT` parameter for `{Time Zone}`, it is required that a value be set for `CorporateTimeZone`.

Example:



```
update innovator.Document  
set effective_date = '1/1/2007 00:00:00.00'
```

Would be written as:

```
update innovator.Document  
set effective_date = innovator.ConvertFromLocal('1/1/2007 00:00:00.00',DEFAULT)
```

Or:

```
update innovator.Document  
set effective_date = innovator.ConvertFromLocal('1/1/2007 00:00:00.00','Eastern Standard Time')
```

This allows users to write queries in a familiar time zone context.

```
select item_number, innovator.ConvertToLocal(release_date,DEFAULT) as ReleaseDate  
from innovator.Document  
where created_on >= innovator.ConvertFromLocal('1/1/2007 00:00:00.00',DEFAULT)
```

Important

For guidance on SQL date formatting in custom server-side code, see Appendix A: Custom Server-Side Code and SQL Date Formatting in the Upgrading to 40 from Aras Innovator 14+ guide.

