

Ed-Fi 2.x Section Entity Mapping

Overview

Use this page to help understand and define the mapping of Aeries data to Ed-Fi data



Status

Ready for certification

Document Version 1.5

Last Updated 25 Feb 2020

Links

Entity

<https://mappingedu.ed-fi.org/#/entity/ad8bfca4-4ed2-e811-80d9-005056b36109/info?dataStandardId=db3697f4-4dd2-e811-80d9-005056b36109>

Scenarios

<https://techdocs.ed-fi.org/display/EDFICERT/MasterSchedule+%3E+Section+Scenarios>

Schema

<https://schema.ed-fi.org/datahandbook-v22/Ed-Fi-UDM-Handbook-Index.html#/Section580>

Root Table

MST

Join Table

TRM

SQL

Scheduled

MST_Functions.GetEdFiDataTable_Sections

```
SELECT [MST].[SC], [MST].[SE], [MST].[CN], [MST].[CR], [MST].[PD], [MST].[BL], [MST].[DY], [MST].[EE], LTRIM
(RTRIM([MST].[RM])) [RM], [TRM].[TM], [TRM].[Dl]
FROM [MST]
INNER JOIN [TRM] ON [MST].[SC] = [TRM].[SC] AND [MST].[SM] = [TRM].[TM]
WHERE [MST].[DEL] = 0 AND [TRM].[DEL] = 0 AND [MST].[SC] = @SC
```

Real-Time

MST_Functions.GetEdFiDataTable_Sections

```
SELECT [MST].[SC], [MST].[SE], [MST].[CN], [MST].[CR], [MST].[PD], [MST].[BL], [MST].[DY], [MST].[EE], LTRIM
(RTRIM([MST].[RM])) [RM], [TRM].[TM], [TRM].[Dl]
FROM [MST]
INNER JOIN [TRM] ON [MST].[SC] = [TRM].[SC] AND [MST].[SM] = [TRM].[TM]
WHERE [MST].[DEL] = 0 AND [TRM].[DEL] = 0 AND [MST].[SC] = @SC AND [MST].[DTS] >= @TimeSince
```

Mapping

Parent	Property	Type	Required	Table	Field	Other	Code / Notes
\	availableCreditConversion	Double	Optional				
\	availableCredits	Double	Required	MST	CR		GetNullableDouble(s("CR"))
\	availableCreditType	CreditType	Optional				
\	characteristics	List(Of SectionCharacteristic)	Optional				
characteristics[n]	characteristics(1)	SectionCharacteristic	Optional				
characteristics[n]	descriptor	SectionCharacteristicMapType	Optional				
\	classPeriodReference	ClassPeriodReference	Identity				
classPeriodReference	link	Link	Optional				
classPeriodReference	name		Identity	MST	PD, BL, DY		GetClassPeriodName(rowMST!PD, rowMST!BL, rowMST!DY) see function below
classPeriodReference	schoolId	Integer	Identity	MST	SC		GetNullableInteger(rowMST!SC)
\	courseOfferingReference	CourseOfferingReference	Identity				
courseOfferingReference	link	Link	Optional				
courseOfferingReference	localCourseCode	String	Identity	MST	CN		GetString(rowMST!CN)
courseOfferingReference	schoolId	Integer	Identity	MST	SC		GetNullableInteger(rowMST!SC)
courseOfferingReference	schoolYear	Integer	Identity	TRM	D1		GetSchoolYear(rowMST!D1) see function below
courseOfferingReference	termDescriptor	TermMapType	Identity	TRM	MST.SC, MST.TM		GetTermDescriptor(rowMST!SC, rowMST!TM) see function below
\	educationalEnvironmentType	EducationalEnvironmentType	Required			map it. if it's not mapped then return 'Classroom'	eduEnvironmentType = GetEdFiCodeValue(EducationalEnvironmentType, "MST", "EE", rowMST!EE) If(String.IsNullOrEmpty(eduEnvironmentType), "Classroom", eduEnvironmentType)
\	instructionLanguageDescriptor	LanguageMapType	Required				
\	locationReference	LocationReference	Identity				
locationReference	classroomIdentificationCode	String	Identity	MST	RM	If blank, send "Unassigned".	GetClassroomIdentificationCode(rowMST!RM) If(String.IsNullOrEmpty(room), "Unassigned", room) see function below
locationReference	link	Link	Optional				
locationReference	schoolId	Integer	Required	MST	SC		GetNullableInteger(rowMST!SC)
\	mediumOfInstructionType	MediumOfInstructionType	Optional				
\	populationServedType	PopulationServedType	Optional				
\	programs	List(Of SectionProgram)	Optional				
programs[n]	programs(1)	SectionProgram	Optional				
programs[n]	programReference	ProgramReference	Optional				
programs[n]	educationOrganizationId	Integer	Optional				
programs[n]	link	link	Optional				
programs[n]	name	String	Optional				
programs[n]	type	ProgramType	Optional				

\	schoolReference	SchoolReference	Identity				
schoolReference	link	Link	Optional				
schoolReference	schoolId	Integer	Identity	MST	SC		GetNullableInteger(s("SC"))
\	sequenceOfCourse	Integer	Identity			hard code to 1	GetNullableInteger(1)
\	uniqueSectionCode	String	Identity	MST	SC, SE		GetUniqueSectionCode(s("SC"), s("SE")) see function below

```
Public Shared Function GetClassPeriodName(ByVal period As Integer, ByVal block As Integer, ByVal day As String) As String
```

```
    Return period & (IIf(block > 1, "-" & (period + block - 1), "")) & " " & day 'Examples: "1 MTWTF", "2-3 MTWTF", "5 MW", "6 A-DAYS"
```

```
End Function
```

```
Public Shared Function GetTermDescriptor(ByVal SC As Integer, ByVal TM As String, ByVal ConnectionString As String) As String
```

```
    Select Case TM
        Case "Y"
            Return "Year Round"
        Case "S"
            Return "Spring Semester"
        Case "F"
            Return "Fall Semester"
    End Select
```

```
    If Trimester(SC, ConnectionString) Then
        Select Case TM
            Case "1"
                Return "First Trimester"
            Case "2"
                Return "Second Trimester"
            Case "3"
                Return "Third Trimester"
        End Select
    End If
```

```
    Else
        Select Case TM
            Case "1"
                Return "First Quarter"
            Case "2"
                Return "Second Quarter"
            Case "3"
                Return "Third Quarter"
            Case "4"
                Return "Fourth Quarter"
        End Select
    End If
```

```
End If
```

```
Return TM
```

```
End Function
```

```
Public Shared Function GetClassroomIdentificationCode(ByVal room As String) As String
```

```
    Return IIf(String.IsNullOrEmpty(room), "Unassigned", room)
```

```
End Function
```

```
Public Shared Function GetUniqueSectionCode(ByVal school As String, ByVal section As String) As String
```

```
    Return school & "-" & section
```

```
End Function
```

```

Public Shared Function GetSchoolYear(ByVal SchoolDate As String) As Integer?

    Dim schoolYear As Integer? = Nothing
    Dim schoolDateValue As Date

    If Date.TryParse(SchoolDate, schoolDateValue) Then
        schoolYear = EdFiV2Functions.GetSchoolYearFromDate(schoolDateValue)
    End If

    Return schoolYear

Public Shared Function GetSchoolYearFromDate(ByVal SchoolDate As Date) As Integer

    ' Ed-Fi sometimes uses a single year as 'school year'. It's actually, just the end year of a full
    school year in the form YYYY-YYYY
    Return GetEndYear(SchoolDate)

End Function

Public Shared Function GetEndYear(ByVal startDate As Date) As Integer

    Dim endYear As Integer = Nothing
    Dim startMonth As Integer = Month(startDate)

    If startMonth >= 7 Then
        ' July-Dec = "this year" (i.e. 9/1/2012 = 2012-2013, so 2013)
        endYear = Year(startDate) + 1
    Else ' startMonth < 7
        ' Jan-June = "last year" (i.e. 3/1/2012
        = 2011-2012, so 2012)
        endYear = Year(startDate)
    End If

    Return endYear

End Function

```