

Ed-Fi 2.x Student Section Attendance Event 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://mappedu.ed-fi.org/#/entity/8dd0f4aa-4ed2-e811-80d9-005056b36109/info?dataStandardId=db3697f4-4dd2-e811-80d9-005056b36109>

Scenarios

<https://techdocs.ed-fi.org/display/EDFICERT/Student+Attendance+%3E+StudentSectionAttendanceEvent+Scenarios>

Schema

<https://schema.ed-fi.org/datahandbook-v22/Ed-Fi-UDM-Handbook-Index.html#/StudentSectionAttendanceEvent594>

Root Table

ATT

Join Tables

STU, ABS, CAR, MST

SQL

Scheduled

ATT_Functions.GetEdFiDataTable_StudentSectionAttendanceEvents

```
WITH cteABS ([SC], [CD], [TI], [TY]) AS (SELECT [SC], [CD], [TI], [TY] FROM [ABS] WHERE [DEL] = 0 AND [SC]
= @SC)
SELECT [STU].[ID], [ATT].[DT], [CAR].[SC], [CAR].[DS], [CAR].[DE], [CAR].[PD], [CAR].[CN], [CAR].[SE],
[MST].[DY], [MST].[RM], [MST].[SM], [MST].[BL],
CASE
    WHEN [CAR].[PD] = 0 THEN [ATT].[A0]
    WHEN [CAR].[PD] = 1 THEN [ATT].[A1]
    WHEN [CAR].[PD] = 2 THEN [ATT].[A2]
    WHEN [CAR].[PD] = 3 THEN [ATT].[A3]
    WHEN [CAR].[PD] = 4 THEN [ATT].[A4]
    WHEN [CAR].[PD] = 5 THEN [ATT].[A5]
    WHEN [CAR].[PD] = 6 THEN [ATT].[A6]
    WHEN [CAR].[PD] = 7 THEN [ATT].[A7]
    WHEN [CAR].[PD] = 8 THEN [ATT].[A8]
    WHEN [CAR].[PD] = 9 THEN [ATT].[A9]
    ELSE ' '
END AS AttCode,
CASE
    WHEN [CAR].[PD] = 0 THEN [ABS0].[TI]
    WHEN [CAR].[PD] = 1 THEN [ABS1].[TI]
    WHEN [CAR].[PD] = 2 THEN [ABS2].[TI]
```

```

        WHEN [CAR].[PD] = 3 THEN [ABS3].[TI]
        WHEN [CAR].[PD] = 4 THEN [ABS4].[TI]
        WHEN [CAR].[PD] = 5 THEN [ABS5].[TI]
        WHEN [CAR].[PD] = 6 THEN [ABS6].[TI]
        WHEN [CAR].[PD] = 7 THEN [ABS7].[TI]
        WHEN [CAR].[PD] = 8 THEN [ABS8].[TI]
        WHEN [CAR].[PD] = 9 THEN [ABS9].[TI]
        ELSE ' '
    END AS AttDesc,
CASE
    WHEN [CAR].[PD] = 0 THEN [ABS0].[TY]
    WHEN [CAR].[PD] = 1 THEN [ABS1].[TY]
    WHEN [CAR].[PD] = 2 THEN [ABS2].[TY]
    WHEN [CAR].[PD] = 3 THEN [ABS3].[TY]
    WHEN [CAR].[PD] = 4 THEN [ABS4].[TY]
    WHEN [CAR].[PD] = 5 THEN [ABS5].[TY]
    WHEN [CAR].[PD] = 6 THEN [ABS6].[TY]
    WHEN [CAR].[PD] = 7 THEN [ABS7].[TY]
    WHEN [CAR].[PD] = 8 THEN [ABS8].[TY]
    WHEN [CAR].[PD] = 9 THEN [ABS9].[TY]
    ELSE ' '
END AS AttType
FROM [STU]
    INNER JOIN [ATT] ON [STU].[SC] = [ATT].[SC] AND [STU].[SN] = [ATT].[SN]
    INNER JOIN ([CAR] INNER JOIN [MST] ON [CAR].[SC] = [MST].[SC] AND [CAR].[SE] = [MST].[SE]) ON [STU].[SC]
= [CAR].[SC] AND [STU].[SN] = [CAR].[SN]
        LEFT JOIN cteABS [ABS0] ON [ATT].[A0] = [ABS0].[CD]
        LEFT JOIN cteABS [ABS1] ON [ATT].[A1] = [ABS1].[CD]
        LEFT JOIN cteABS [ABS2] ON [ATT].[A2] = [ABS2].[CD]
        LEFT JOIN cteABS [ABS3] ON [ATT].[A3] = [ABS3].[CD]
        LEFT JOIN cteABS [ABS4] ON [ATT].[A4] = [ABS4].[CD]
        LEFT JOIN cteABS [ABS5] ON [ATT].[A5] = [ABS5].[CD]
        LEFT JOIN cteABS [ABS6] ON [ATT].[A6] = [ABS6].[CD]
        LEFT JOIN cteABS [ABS7] ON [ATT].[A7] = [ABS7].[CD]
        LEFT JOIN cteABS [ABS8] ON [ATT].[A8] = [ABS8].[CD]
        LEFT JOIN cteABS [ABS9] ON [ATT].[A9] = [ABS9].[CD]
WHERE [STU].[DEL] = 0 AND [CAR].[DEL] = 0 AND [ATT].[DEL] = 0 AND [ATT].[DT] >= [CAR].[DS] AND [ATT].[DT]
<= [CAR].[DE] AND [STU].[SC] = @SC
AND (
    [CAR].[PD] = 0 AND [ATT].[A0] > ' ' OR
    [CAR].[PD] = 1 AND [ATT].[A1] > ' ' OR
    [CAR].[PD] = 2 AND [ATT].[A2] > ' ' OR
    [CAR].[PD] = 3 AND [ATT].[A3] > ' ' OR
    [CAR].[PD] = 4 AND [ATT].[A4] > ' ' OR
    [CAR].[PD] = 5 AND [ATT].[A5] > ' ' OR
    [CAR].[PD] = 6 AND [ATT].[A6] > ' ' OR
    [CAR].[PD] = 7 AND [ATT].[A7] > ' ' OR
    [CAR].[PD] = 8 AND [ATT].[A8] > ' ' OR
    [CAR].[PD] = 9 AND [ATT].[A9] > ' '
)
)

```

Real-Time

ATT_Functions.GetEdFiDataTable_StudentSectionAttendanceEvents

```

WITH cteABS ([SC], [CD], [TI], [TY]) AS (SELECT [SC], [CD], [TI], [TY] FROM [ABS] WHERE [DEL] = 0 AND [SC]
= @SC)
SELECT [STU].[ID], [ATT].[DT], [CAR].[SC], [CAR].[DS], [CAR].[DE], [CAR].[PD], [CAR].[CN], [CAR].[SE],
[MST].[DY], [MST].[RM], [MST].[SM], [MST].[BL],
CASE
    WHEN [CAR].[PD] = 0 THEN [ATT].[A0]
    WHEN [CAR].[PD] = 1 THEN [ATT].[A1]
    WHEN [CAR].[PD] = 2 THEN [ATT].[A2]
    WHEN [CAR].[PD] = 3 THEN [ATT].[A3]
    WHEN [CAR].[PD] = 4 THEN [ATT].[A4]
    WHEN [CAR].[PD] = 5 THEN [ATT].[A5]
    WHEN [CAR].[PD] = 6 THEN [ATT].[A6]
    WHEN [CAR].[PD] = 7 THEN [ATT].[A7]

```

```

        WHEN [CAR].[PD] = 8 THEN [ATT].[A8]
        WHEN [CAR].[PD] = 9 THEN [ATT].[A9]
        ELSE ' '
    END AS AttCode,
CASE
    WHEN [CAR].[PD] = 0 THEN [ABS0].[TI]
    WHEN [CAR].[PD] = 1 THEN [ABS1].[TI]
    WHEN [CAR].[PD] = 2 THEN [ABS2].[TI]
    WHEN [CAR].[PD] = 3 THEN [ABS3].[TI]
    WHEN [CAR].[PD] = 4 THEN [ABS4].[TI]
    WHEN [CAR].[PD] = 5 THEN [ABS5].[TI]
    WHEN [CAR].[PD] = 6 THEN [ABS6].[TI]
    WHEN [CAR].[PD] = 7 THEN [ABS7].[TI]
    WHEN [CAR].[PD] = 8 THEN [ABS8].[TI]
    WHEN [CAR].[PD] = 9 THEN [ABS9].[TI]
    ELSE ' '
END AS AttDesc,
CASE
    WHEN [CAR].[PD] = 0 THEN [ABS0].[TY]
    WHEN [CAR].[PD] = 1 THEN [ABS1].[TY]
    WHEN [CAR].[PD] = 2 THEN [ABS2].[TY]
    WHEN [CAR].[PD] = 3 THEN [ABS3].[TY]
    WHEN [CAR].[PD] = 4 THEN [ABS4].[TY]
    WHEN [CAR].[PD] = 5 THEN [ABS5].[TY]
    WHEN [CAR].[PD] = 6 THEN [ABS6].[TY]
    WHEN [CAR].[PD] = 7 THEN [ABS7].[TY]
    WHEN [CAR].[PD] = 8 THEN [ABS8].[TY]
    WHEN [CAR].[PD] = 9 THEN [ABS9].[TY]
    ELSE ' '
END AS AttType
FROM [STU]
    INNER JOIN [ATT] ON [STU].[SC] = [ATT].[SC] AND [STU].[SN] = [ATT].[SN]
    INNER JOIN ([CAR] INNER JOIN [MST] ON [CAR].[SC] = [MST].[SC] AND [CAR].[SE] = [MST].[SE]) ON [STU].[SC]
= [CAR].[SC] AND [STU].[SN] = [CAR].[SN]
    LEFT JOIN cteABS [ABS0] ON [ATT].[A0] = [ABS0].[CD]
    LEFT JOIN cteABS [ABS1] ON [ATT].[A1] = [ABS1].[CD]
    LEFT JOIN cteABS [ABS2] ON [ATT].[A2] = [ABS2].[CD]
    LEFT JOIN cteABS [ABS3] ON [ATT].[A3] = [ABS3].[CD]
    LEFT JOIN cteABS [ABS4] ON [ATT].[A4] = [ABS4].[CD]
    LEFT JOIN cteABS [ABS5] ON [ATT].[A5] = [ABS5].[CD]
    LEFT JOIN cteABS [ABS6] ON [ATT].[A6] = [ABS6].[CD]
    LEFT JOIN cteABS [ABS7] ON [ATT].[A7] = [ABS7].[CD]
    LEFT JOIN cteABS [ABS8] ON [ATT].[A8] = [ABS8].[CD]
    LEFT JOIN cteABS [ABS9] ON [ATT].[A9] = [ABS9].[CD]
WHERE [STU].[DEL] = 0 AND [CAR].[DEL] = 0 AND [ATT].[DEL] = 0 AND [ATT].[DT] >= [CAR].[DS] AND [ATT].[DT]
<= [CAR].[DE] AND [STU].[SC] = @SC
AND (
    [CAR].[PD] = 0 AND [ATT].[A0] > ' ' OR
    [CAR].[PD] = 1 AND [ATT].[A1] > ' ' OR
    [CAR].[PD] = 2 AND [ATT].[A2] > ' ' OR
    [CAR].[PD] = 3 AND [ATT].[A3] > ' ' OR
    [CAR].[PD] = 4 AND [ATT].[A4] > ' ' OR
    [CAR].[PD] = 5 AND [ATT].[A5] > ' ' OR
    [CAR].[PD] = 6 AND [ATT].[A6] > ' ' OR
    [CAR].[PD] = 7 AND [ATT].[A7] > ' ' OR
    [CAR].[PD] = 8 AND [ATT].[A8] > ' ' OR
    [CAR].[PD] = 9 AND [ATT].[A9] > ' '
)
AND [ATT].[DTS] >= @TimeSince

```

Mapping

Parent	Property	Type	Required	Table	Field	Other	Code / Notes
\	attendanceEvent CategoryDescriptor	AttendanceEvent CategoryMapType	Required	ATT	A# [AttCode]		GetEdFiCodeValue(AttendanceEvent CategoryDescriptor, "ATT", "AL", rowATT!AttCode)

\	attendanceEventReason	String	Required	ABS	TI [AttDesc]		GetString(s("AttDesc"))
\	educationalEnvironmentType	EducationalEnvironmentType	Optional				
\	eventDate	Date	Required	ATT	DT		GetNullableDate(s("DT"))
\	sectionReference	SectionReference	Required				
sectionReference	classPeriodName	String	Identity	MST	PD, BL, DY		GetClassPeriodName(s("PD"), s("BL"), s("DY")) see function below
sectionReference	classroomIdentificationCode	String	Identity	MST	RM		GetClassroomIdentificationCode(s("RM")) see function below
sectionReference	link	Link	Optional				
sectionReference	localCourseCode	String	Identity	CAR	CN		GetString(s("CN"))
sectionReference	schoolId	Integer	Identity	CAR	SC		GetNullableInteger(s("SC"))
sectionReference	schoolYear	Integer	Identity	CAR	DS		GetSchoolYear(s("DS")) see function below
sectionReference	sequenceOfCourse	Integer	Identity			Hard code to 1	GetNullableInteger(1)
sectionReference	termDescriptor	TermMapType	Identity	MST	SM		GetTermDescriptor(rowATT!SC, rowATT!SM) see function below
sectionReference	uniqueSectionCode	String	Identity	MST	SC, SE		GetUniqueSectionCode(s("SC"), s("SE")) see function below
\	studentReference	StudentReference	Identity				
studentReference	link	Link	Optional				
studentReference	studentUniqueId	String	Identity	STU	ID		GetString(s("ID"))

Code

```

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 GetClassroomIdentificationCode(ByVal room As String) As String

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

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

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
    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

    Return TM

End Function

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

    Return school & "-" & section

End Function

```