

Ed-Fi 2.x Student School 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://mappingedu.ed-fi.org/#!/entity/45d0f4aa-4ed2-e811-80d9-005056b36109/info?dataStandardId=db3697f4-4dd2-e811-80d9-005056b36109>

Scenarios

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

Schema

<https://schema.ed-fi.org/datahandbook-v22/Ed-Fi-UDM-Handbook-Index.html#/StudentSchoolAttendanceEvent593>

Root Table

ATT

SQL

Scheduled

ATT_Functions.GetEdFiDataTable_StudentSchoolAttendanceEvents

```
SELECT ATT.*, STU.ID AS PID
FROM ATT
INNER JOIN STU ON ATT.SC = STU.SC AND ATT.SN = STU.SN
WHERE ATT.DEL = 0 AND ATT.SC = @SC AND STU.DEL = 0
ORDER BY STU.ID, ATT.DY, STU.SN
```

Real-Time

ATT_Functions.GetEdFiDataTable_StudentSchoolAttendanceEvents

```
SELECT ATT.*, STU.ID AS PID
FROM ATT
INNER JOIN STU ON ATT.SC = STU.SC AND ATT.SN = STU.SN
WHERE ATT.DEL = 0 AND ATT.SC = @SC AND STU.DEL = 0 AND [ATT].[DTS] >= @TimeSince
ORDER BY STU.ID, ATT.DY, STU.SN
```

Entity Mapping

We get a list of these items from a single row from the ATT table - We create one item for each of the AL, A0-A9 column values, when any are found.

Parent	Property	Type	Required	Table	Field	Other	Code / Notes
\	eventDate	Date	Required	ATT	DT		GetNullableDate(rowATT!DT)
\	schoolReference	SchoolReference	Identity				
schoolReference	link	Link	Optional				
schoolReference	schoolId	Integer	Identity	ATT	SC		GetNullableInteger(s("SC"))
\	sessionReference	SessionReference	Identity				
sessionReference	schoolId	Integer	Identity	ATT	SC		GetNullableInteger(s("SC"))
sessionReference	termDescriptor	string	Identity	ATT	SC & DT		GetTermDescriptorForEvent(rowATT!SC, rowATT!DT) see function below
sessionReference	schoolYear	Integer	Identity	ATT	DT		GetSchoolYear(s("DT"))
\	studentReference	StudentReference	Identity				
studentReference	studentUniqueld	string	Identity	ATT	SC & SN		STU_Functions. ConvertSCSNtoID(rowATT!SC, rowATT!SN)
studentReference	link	Link	Optional				
\	attendanceEvent CategoryDescriptor	AttendanceEvent CategoryMapType	Required	ATT	AL		GetEdFiCodeValue(AttendanceEvent CategoryDescriptor, "ATT", "AL", rowATT!AL)
\	educational EnvironmentType	String	Optional				
\	attendanceEvent Reason	String	Optional				

Code

```

Public Shared Function GetTermDescriptorForEvent(ByVal schoolcode As String, ByVal eventDate As String,
ByVal connectionString As String) As String

    Dim termDescriptor As String = String.Empty
    Dim eventDateValue As Date

    If Date.TryParse(eventDate, eventDateValue) Then
        Dim term As String = TRM_Functions.GetTerm(schoolcode, eventDateValue, String.Empty,
connectionString)
        termDescriptor = EdFiV2Functions.GetTermDescriptor(schoolcode, term, connectionString)
    End If

    Return termDescriptor

End Function

Public Shared Function GetTerm(ByVal SC As Integer, ByVal eventDate As Date, ByVal USR As String, ByVal
ConnectionString As String) As String

    Dim ixl As Integer = 1
    Dim rcdTRM As TRM_Record

    GetTerm = ""

    If Trimester(SC, ConnectionString) Then
        For ixl = 1 To 4
            rcdTRM = New TRM_Record(USR, SC, ixl.ToString(), ConnectionString)
            If Not rcdTRM.NewRecord Then
                Dim endDateTrimester As Date
                If Date.TryParse(rcdTRM!D2, endDateTrimester) Then
                    If eventDate <= endDateTrimester Then
                        GetTerm = rcdTRM.TM
                        GoTo CurrentTerm_exit
                    End If
                End If
            End If
        Next
    End If

    Else

```

```

        rcdTRM = New TRM_Record(USR, SC, "F", ConnectionString)
        If Not rcdTRM.NewRecord Then
            Dim endDateFall As Date
            If Date.TryParse(rcdTRM!D2, endDateFall) Then
                If eventDate <= endDateFall Then
                    GetTerm = rcdTRM.TM
                    GoTo CurrentTerm_exit
                End If
            End If
        End If
        rcdTRM = New TRM_Record(USR, SC, "S", ConnectionString)
        If Not rcdTRM.NewRecord Then
            Dim endDateSpring As Date
            If Date.TryParse(rcdTRM!D2, endDateSpring) Then
                If eventDate <= endDateSpring Then
                    GetTerm = rcdTRM.TM
                    GoTo CurrentTerm_exit
                End If
            End If
        End If
    End If

    rcdTRM = New TRM_Record(USR, SC, "Y", ConnectionString)
    If Not rcdTRM.NewRecord Then
        GetTerm = rcdTRM.TM
        GoTo CurrentTerm_exit
    End If

CurrentTerm_exit:
    rcdTRM = Nothing
    Exit Function

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

```