

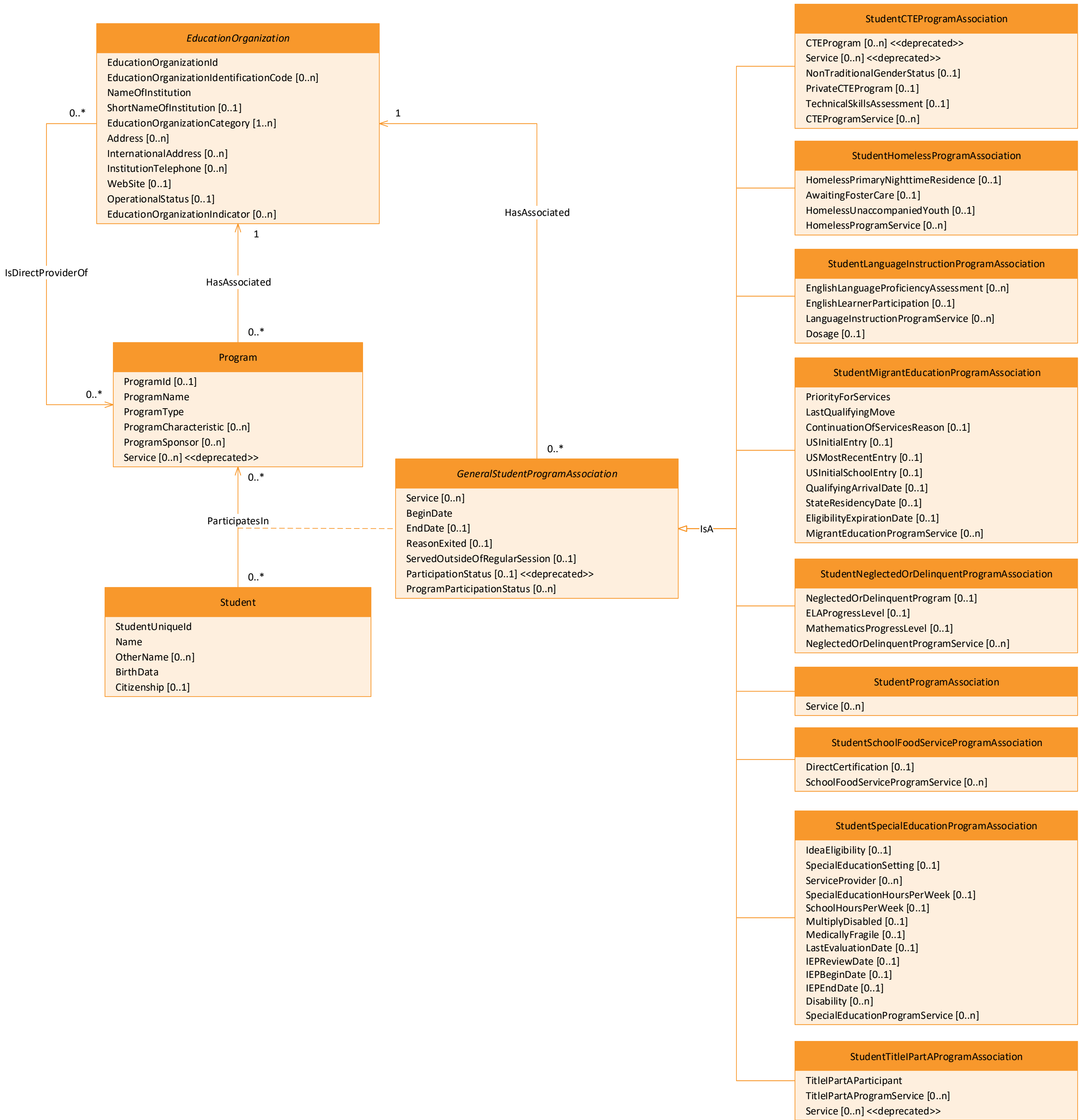
# Ed-Fi Unifying Data Model v4.x – UML Diagrams

The Ed-Fi Unifying Data Model (UDM) is a conceptual model, and a common framework for the representation of data in the education domain. The UDM serves as the enterprise data model which is the basis for all Ed-Fi Data Exchange Standards.

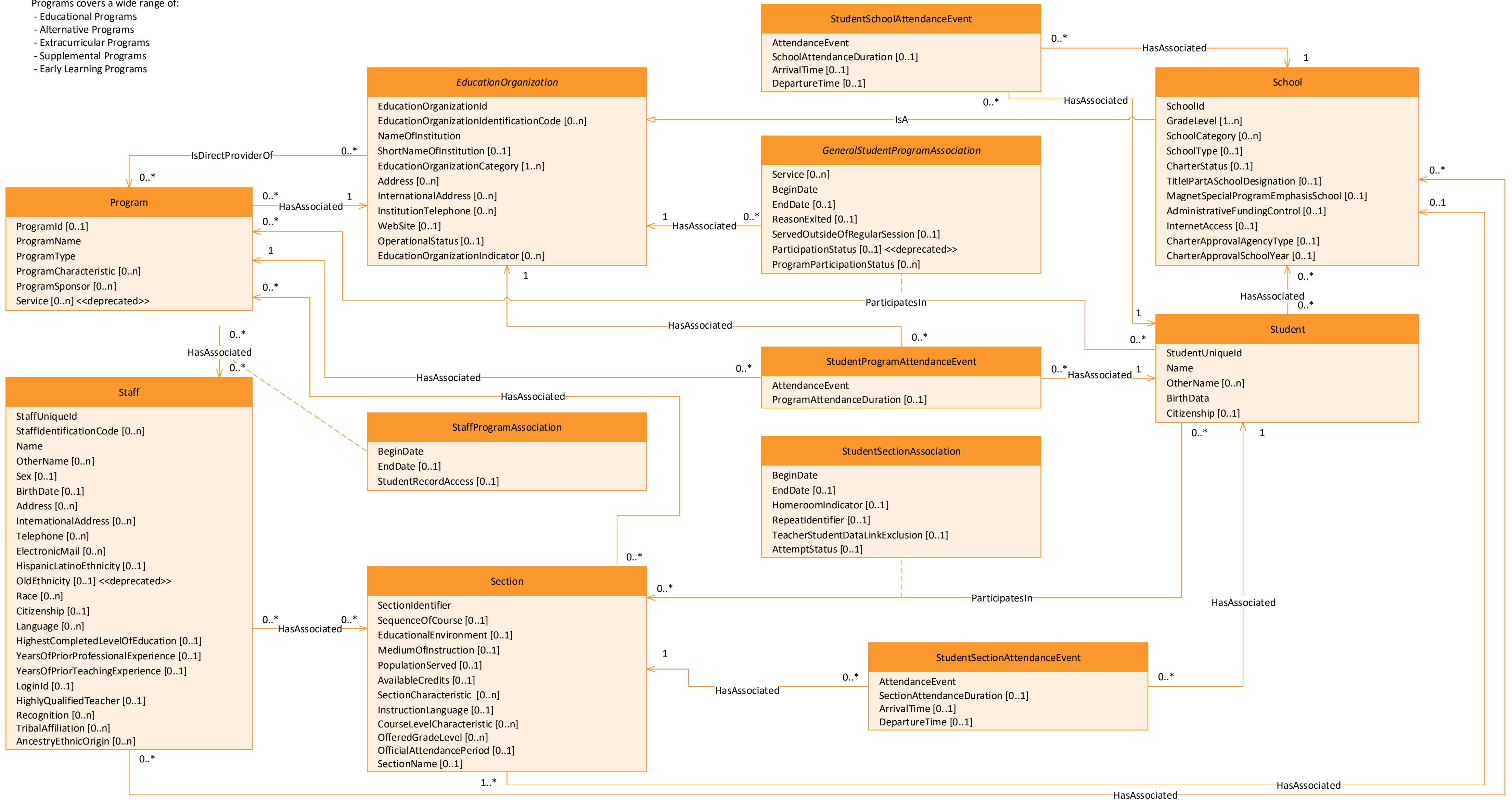
The Ed-Fi UDM is expressed as Unified Modeling Language (UML) Class diagrams to capture the logical structure of a domain as a set of classes, their features (attributes), and the relationships (associations) between them. UML Class diagrams are more useful than Entity-Relationship diagrams to understand the Ed-Fi Unifying Data Model because they support generalization of classes. All domains and subdomains under the Ed-Fi UDM v4.x are included in this document.

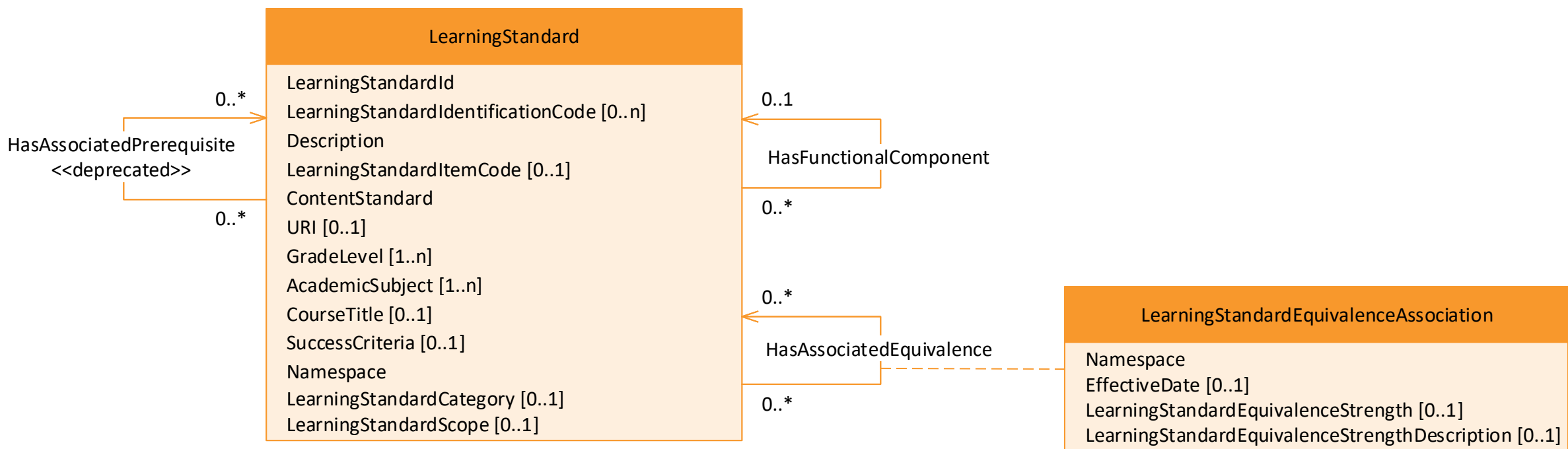
Technical documentation and additional details about the Unifying Data Model can be found here:  
<https://techdocs.ed-fi.org/display/EFDS4X/Ed-Fi+Data+Standard+v4.x>

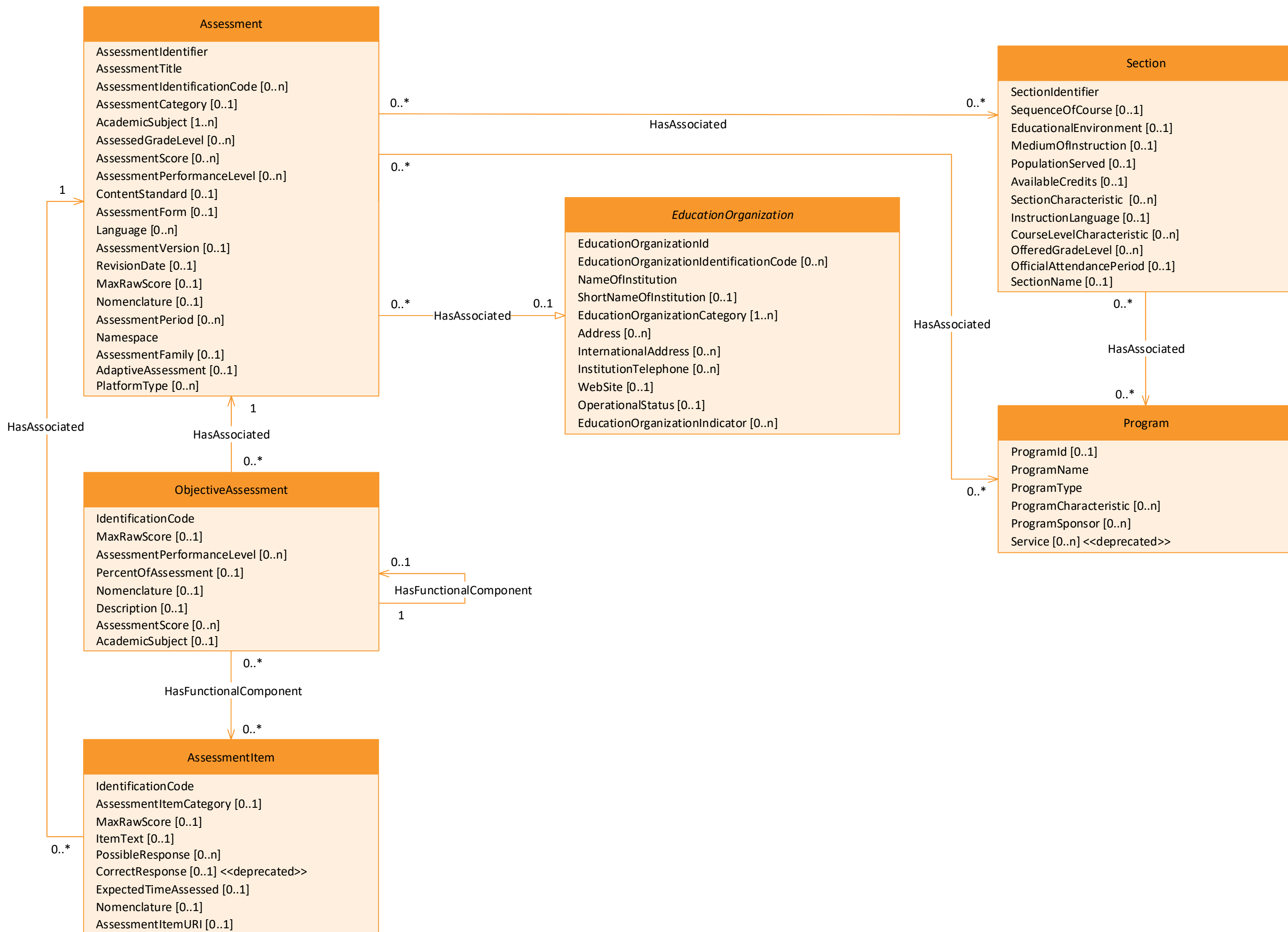




- Educational Programs
- Alternative Programs
- Extracurricular Programs
- Supplemental Programs
- Early Learning Programs



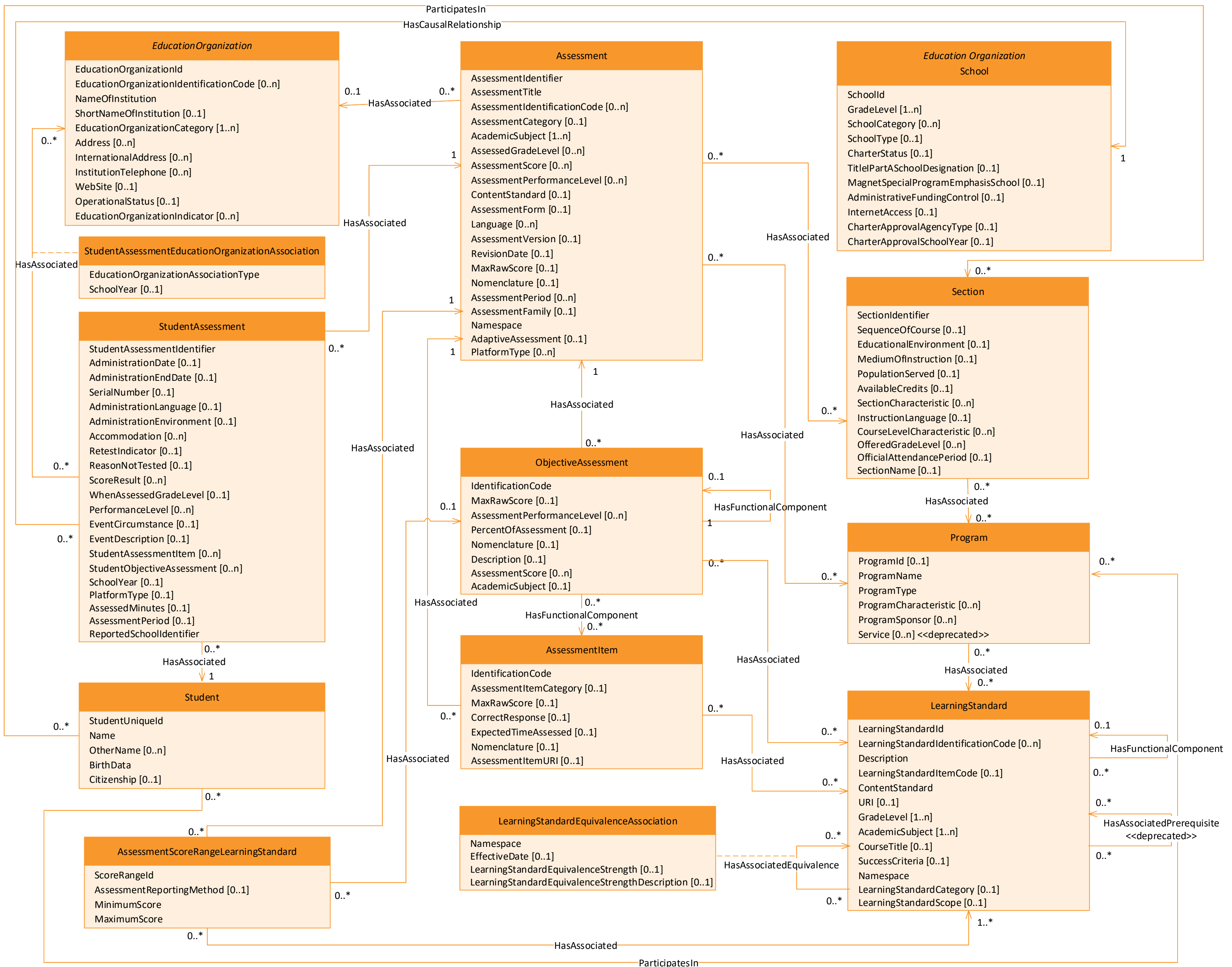




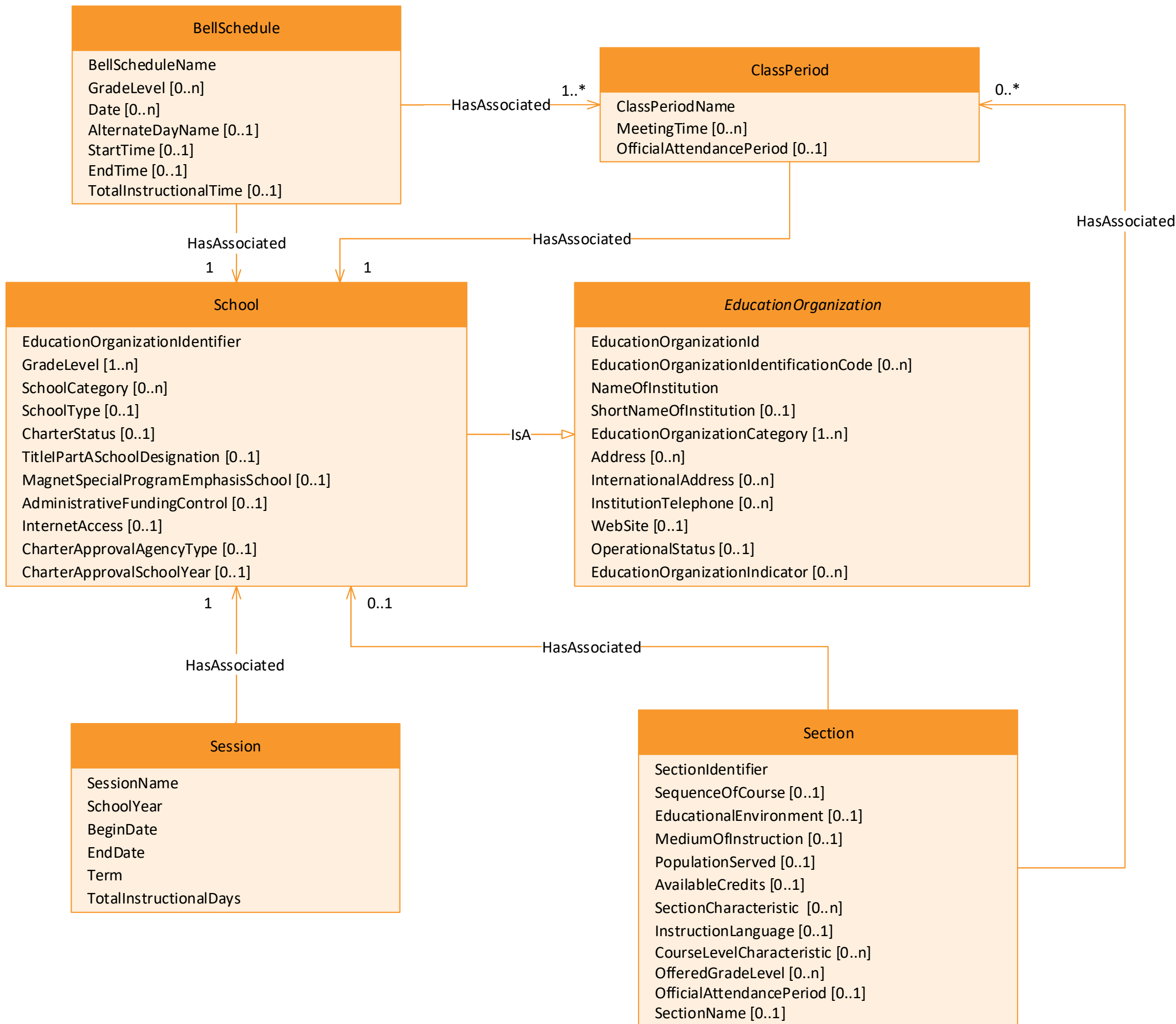
Student
StudentUniqueid
Name
OtherName [0..n]
BirthData
Citizenship [0..1]

1 ← HasAssociated 0..\*

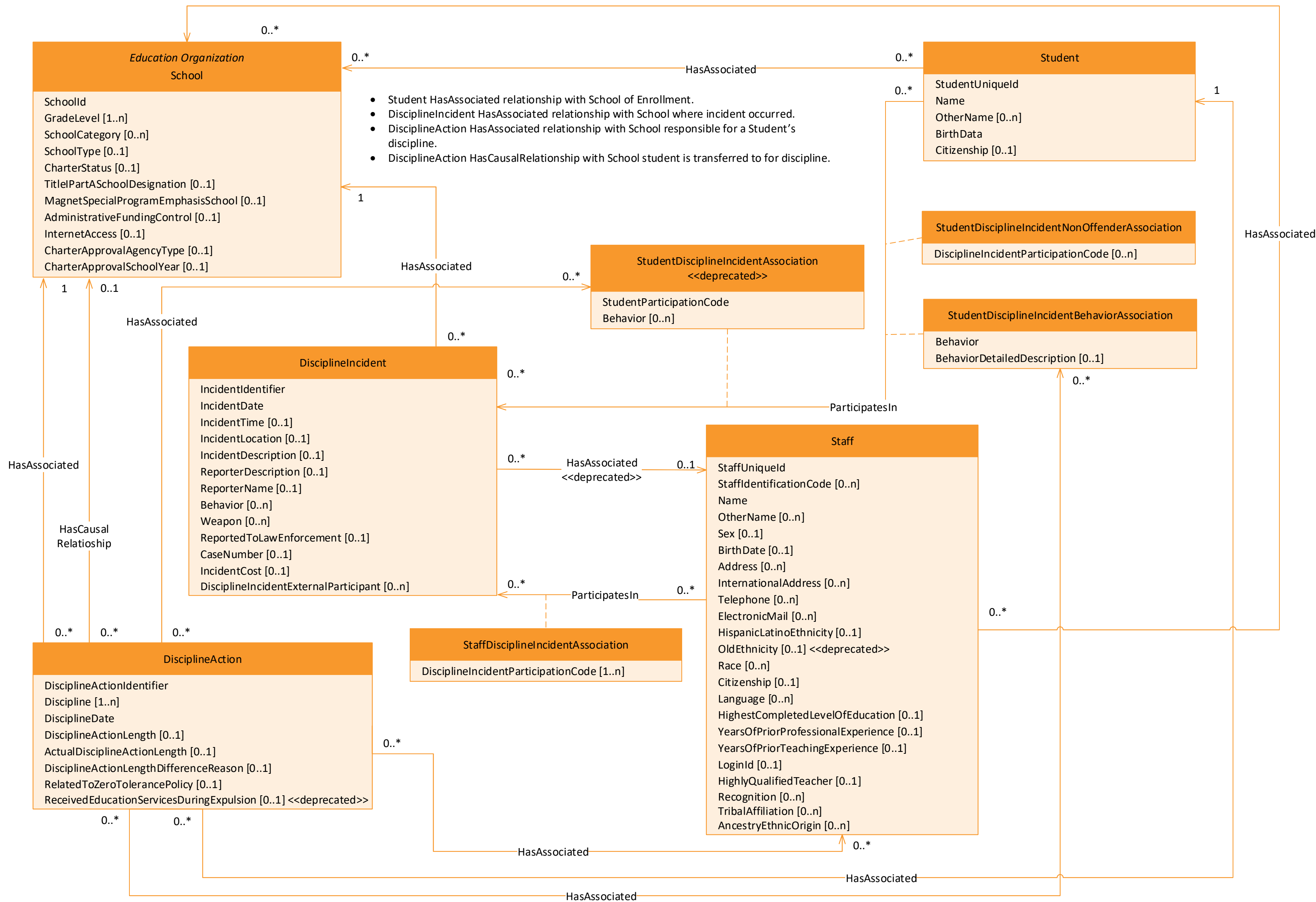
StudentAssessment
StudentAssessmentIdentifier
AdministrationDate [0..n]
AdministrationEndDate [0..1]
SerialNumber [0..1]
AdministrationLanguage [0..1]
AdministrationEnvironment [0..1]
Accommodation [0..n]
RetestIndicator [0..1]
ReasonNotTested [0..1]
ScoreResult [0..n]
WhenAssessedGradeLevel [0..1]
PerformanceLevel [0..n]
EventCircumstance [0..1]
EventDescription [0..1]
StudentAssessmentItem [0..n]
StudentObjectiveAssessment [0..n]
SchoolYear [0..1]
PlatformType [0..1]
AssessedMinutes [0..1]
AssessmentPeriod [0..1]

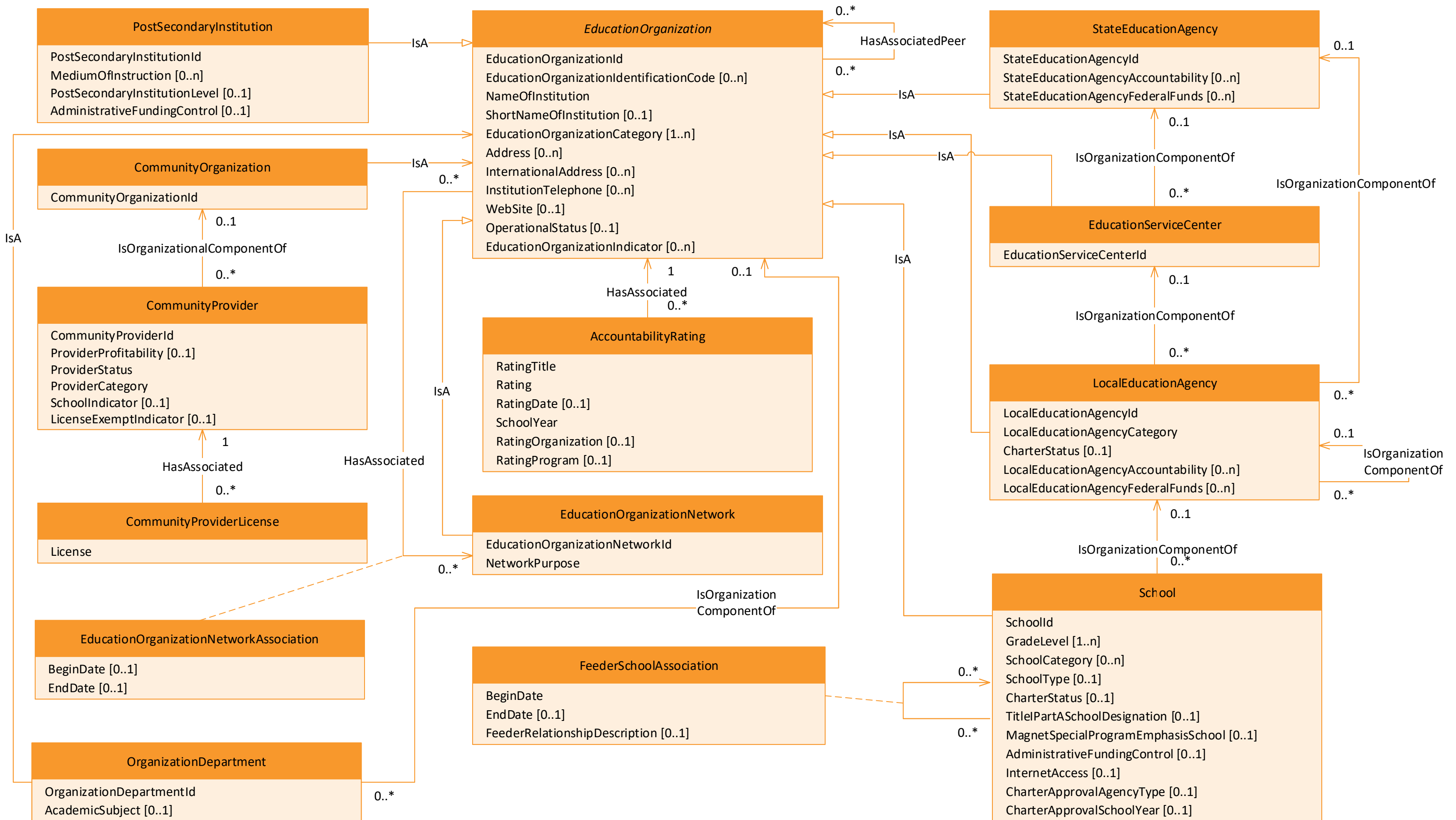


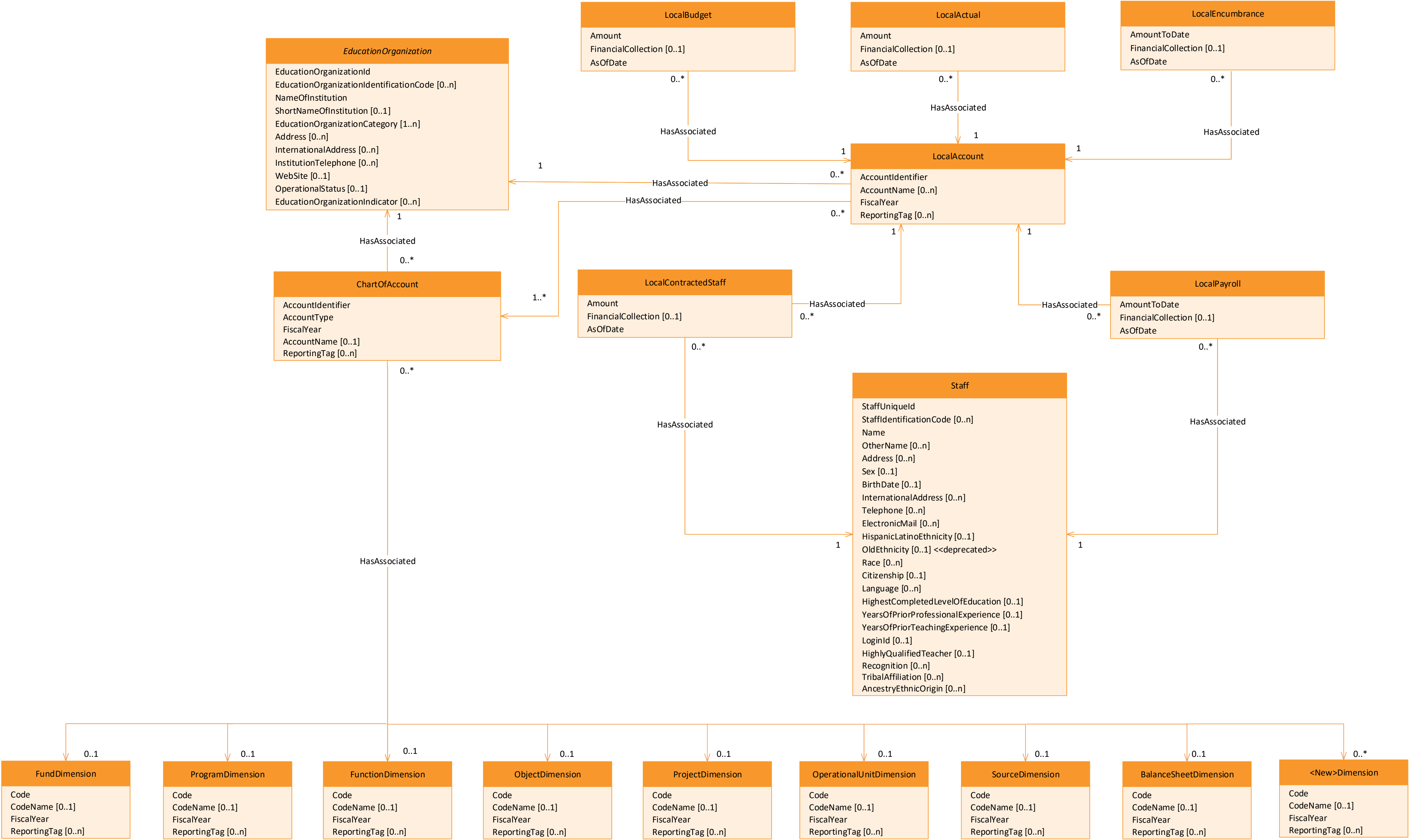


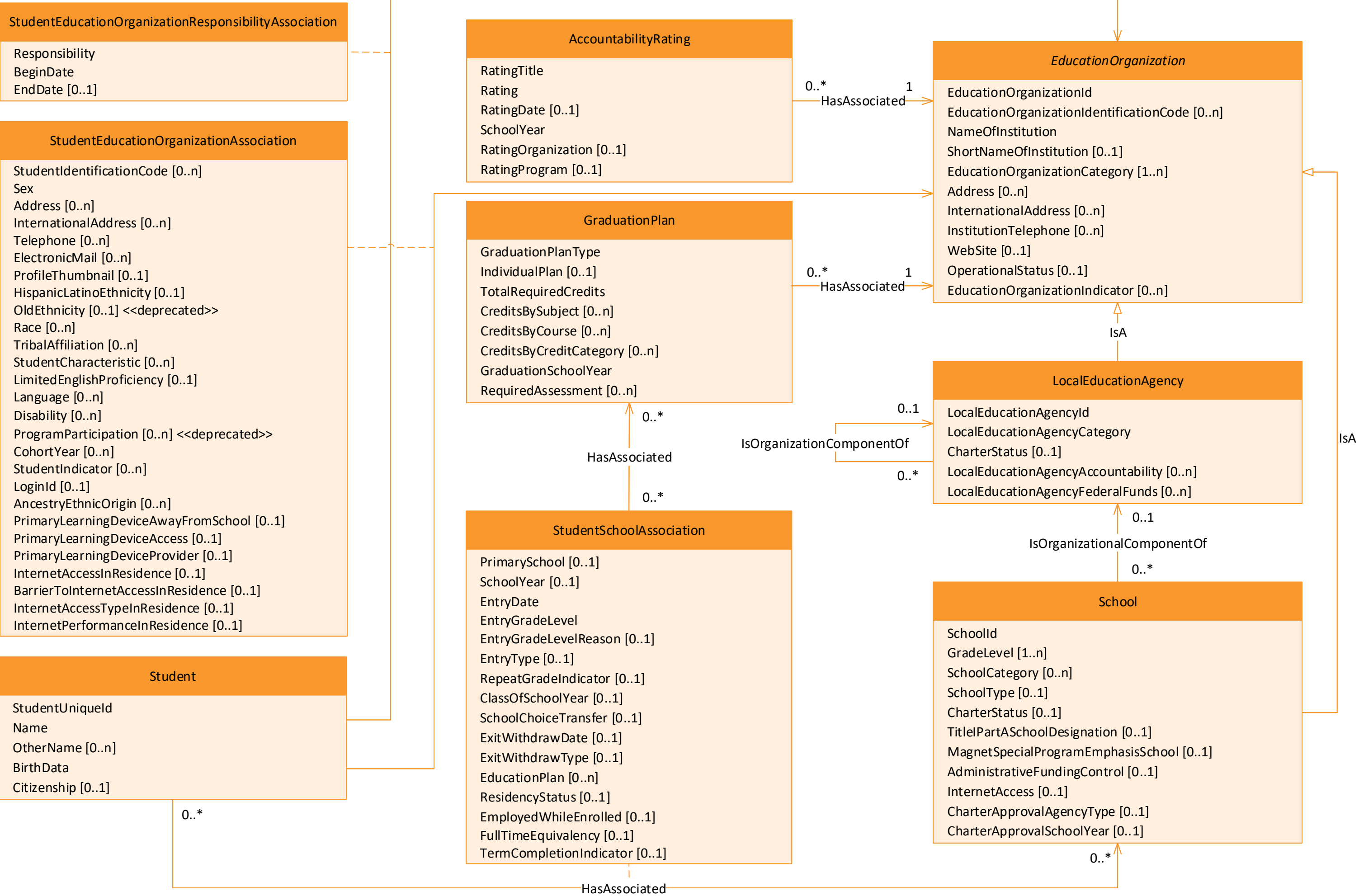


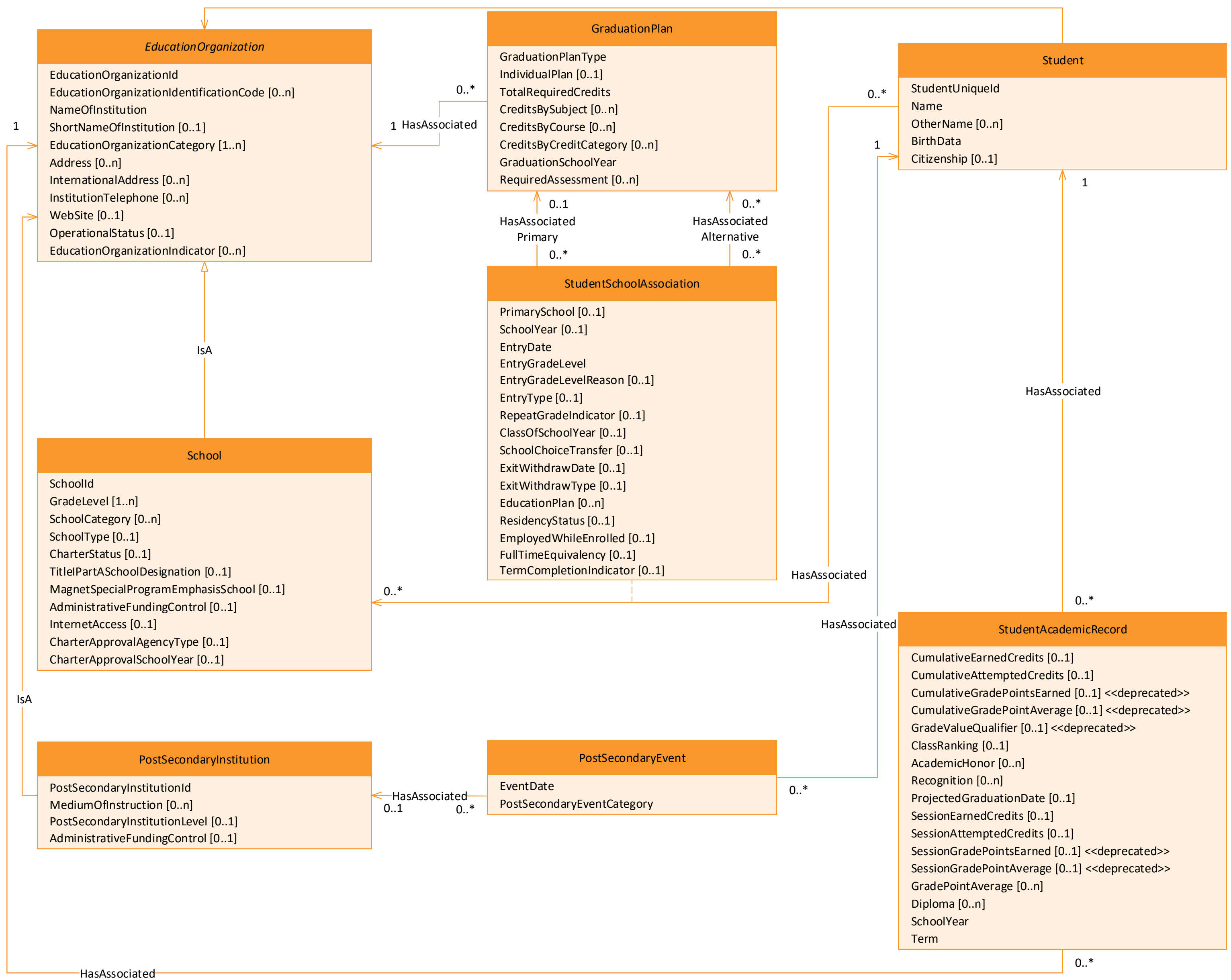




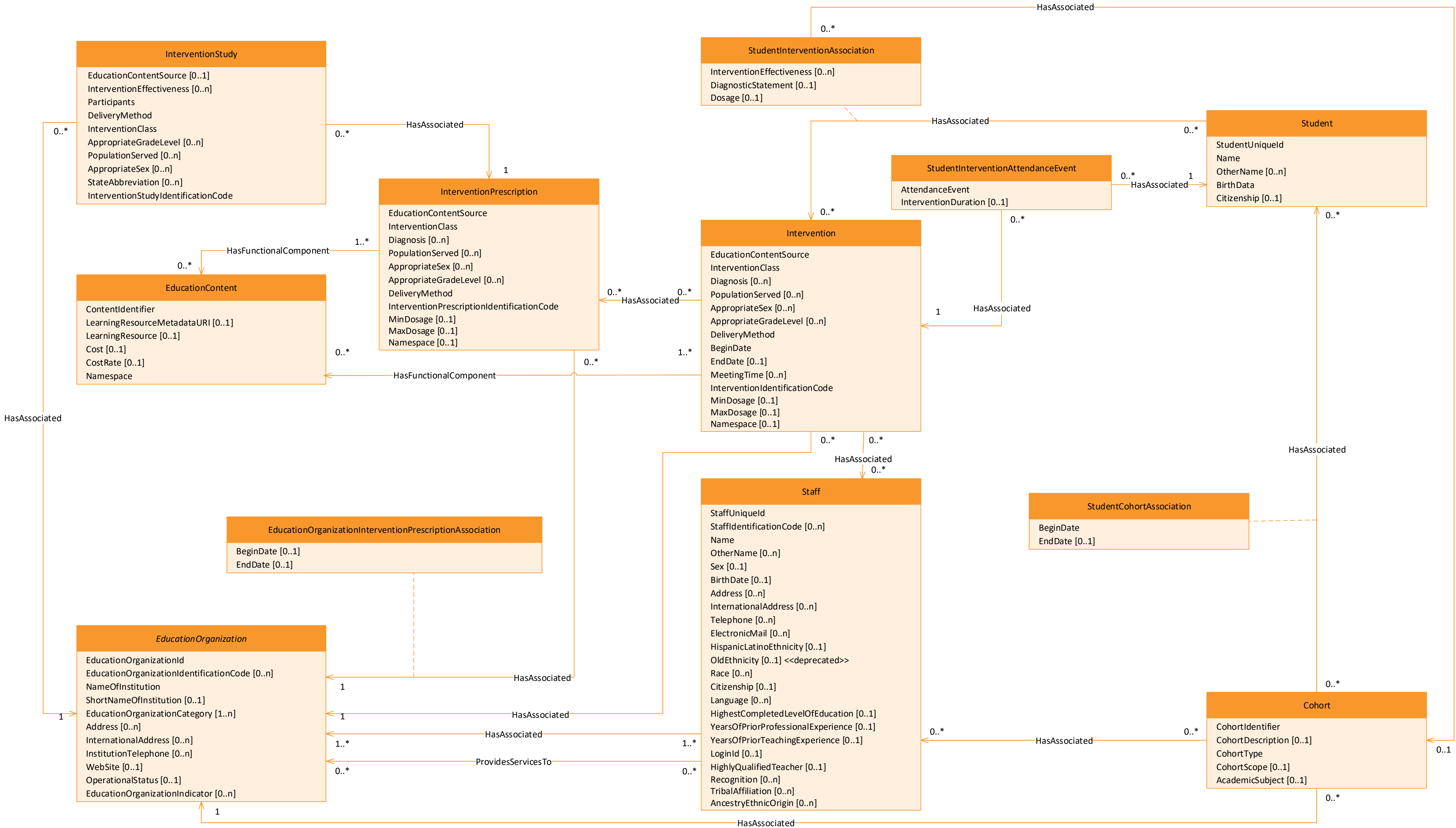


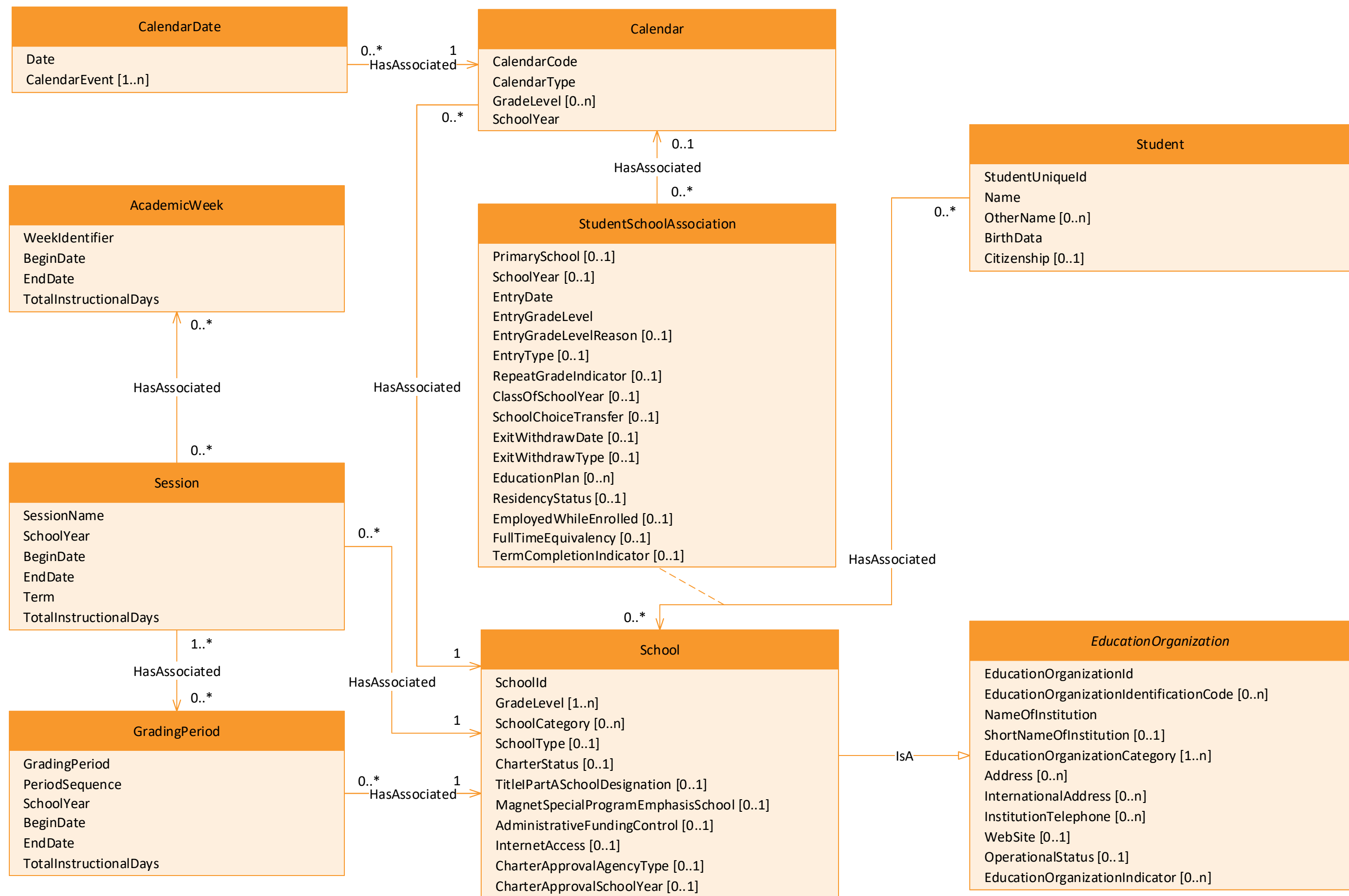




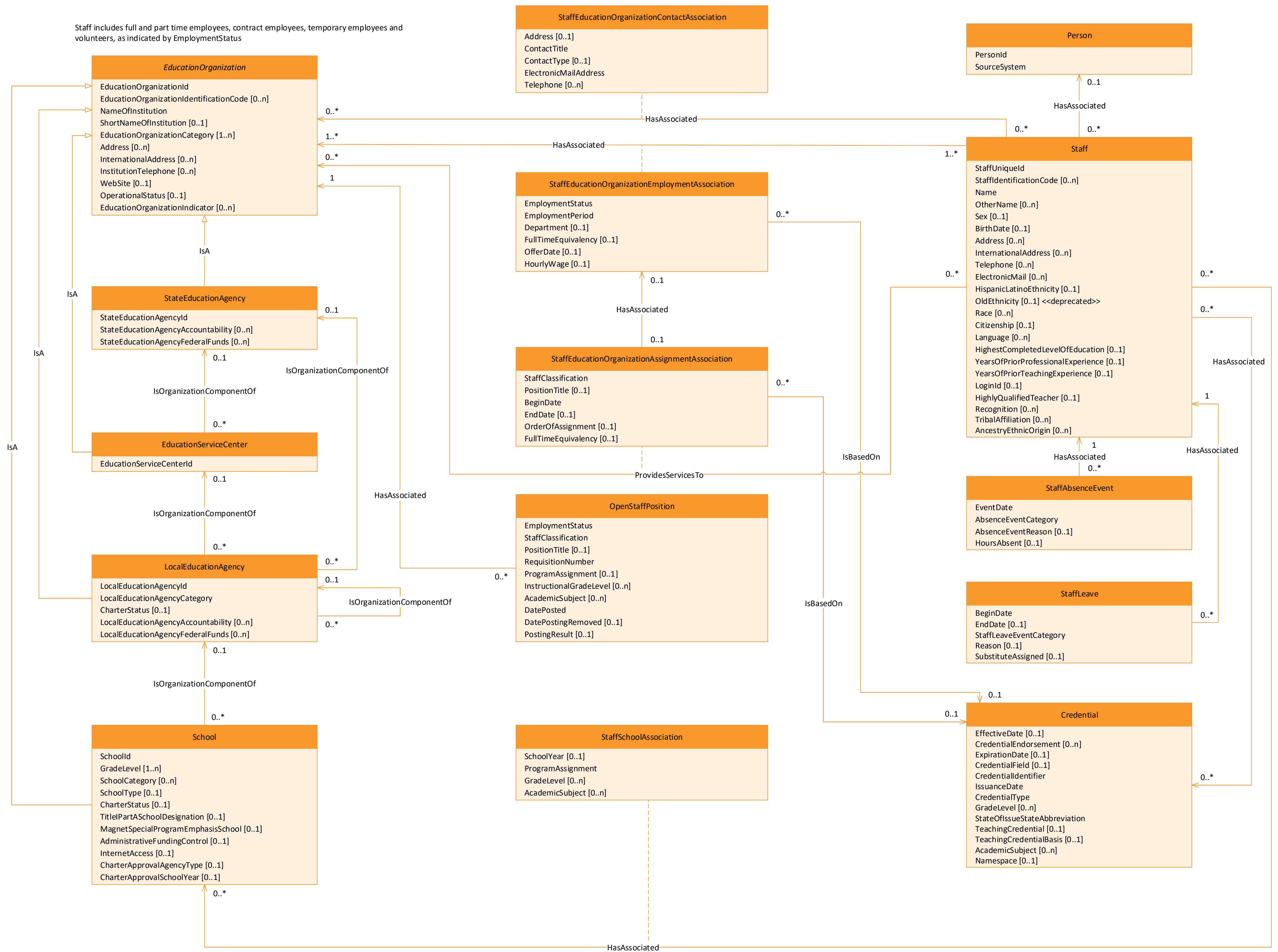


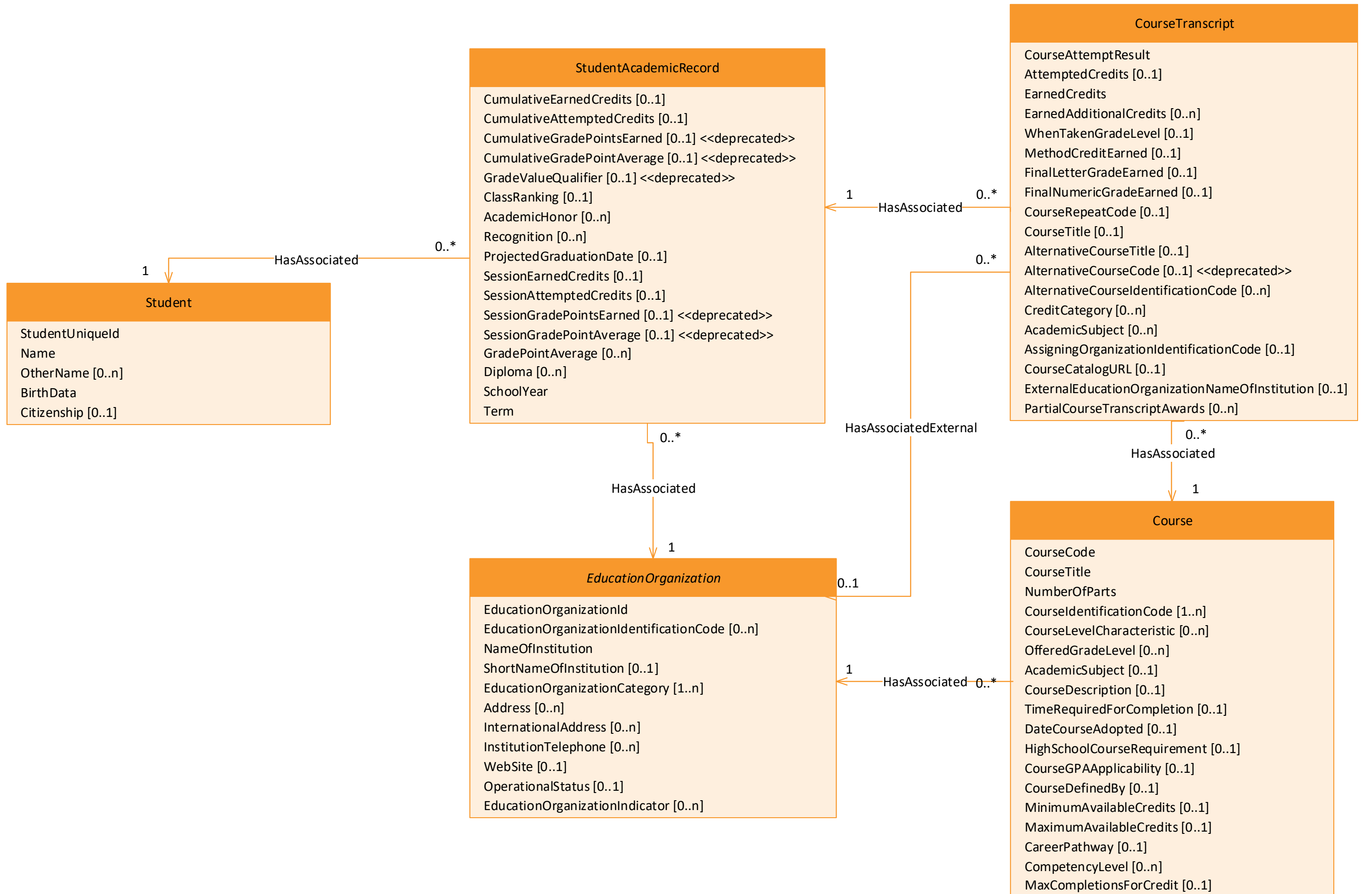


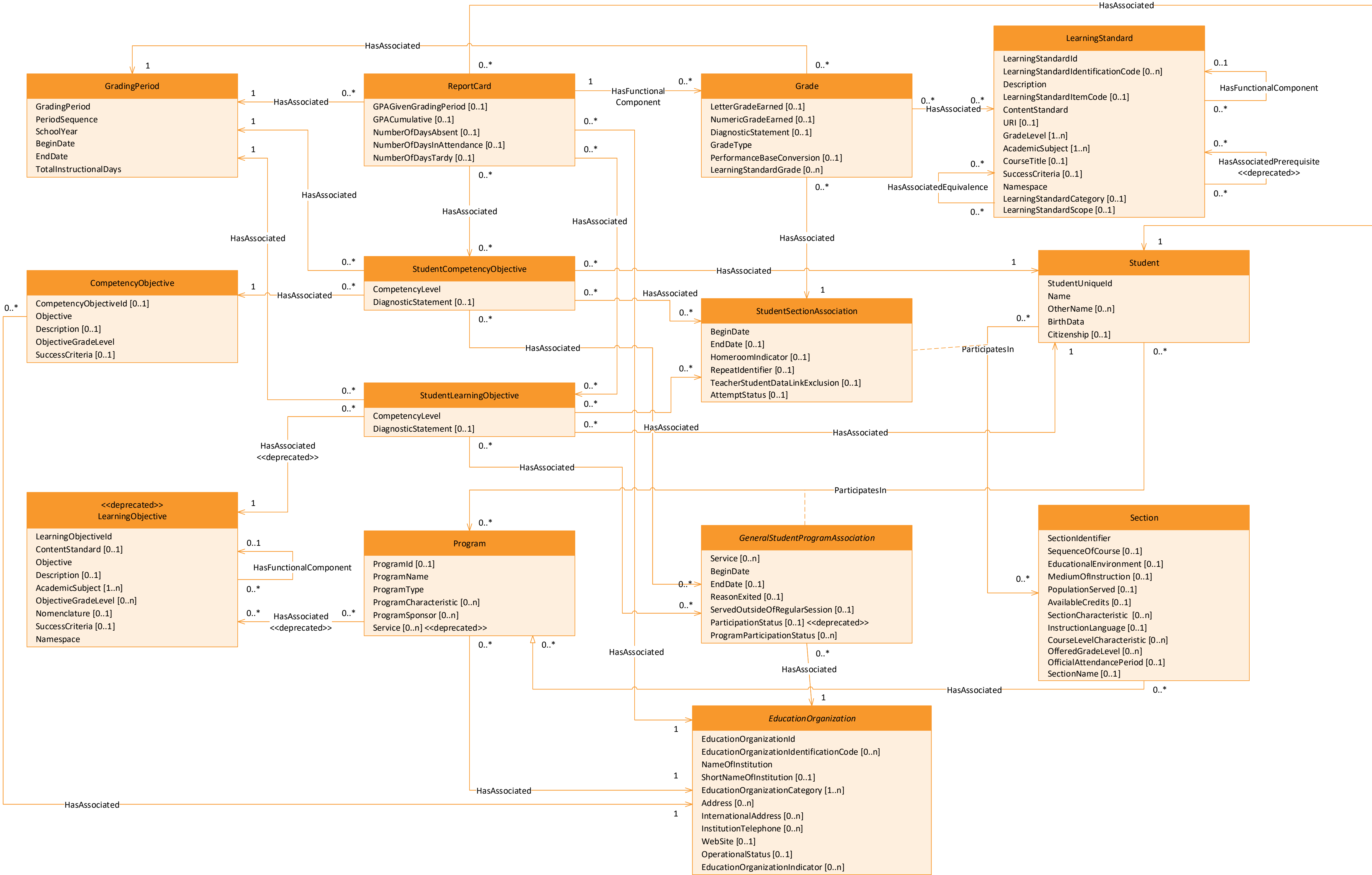


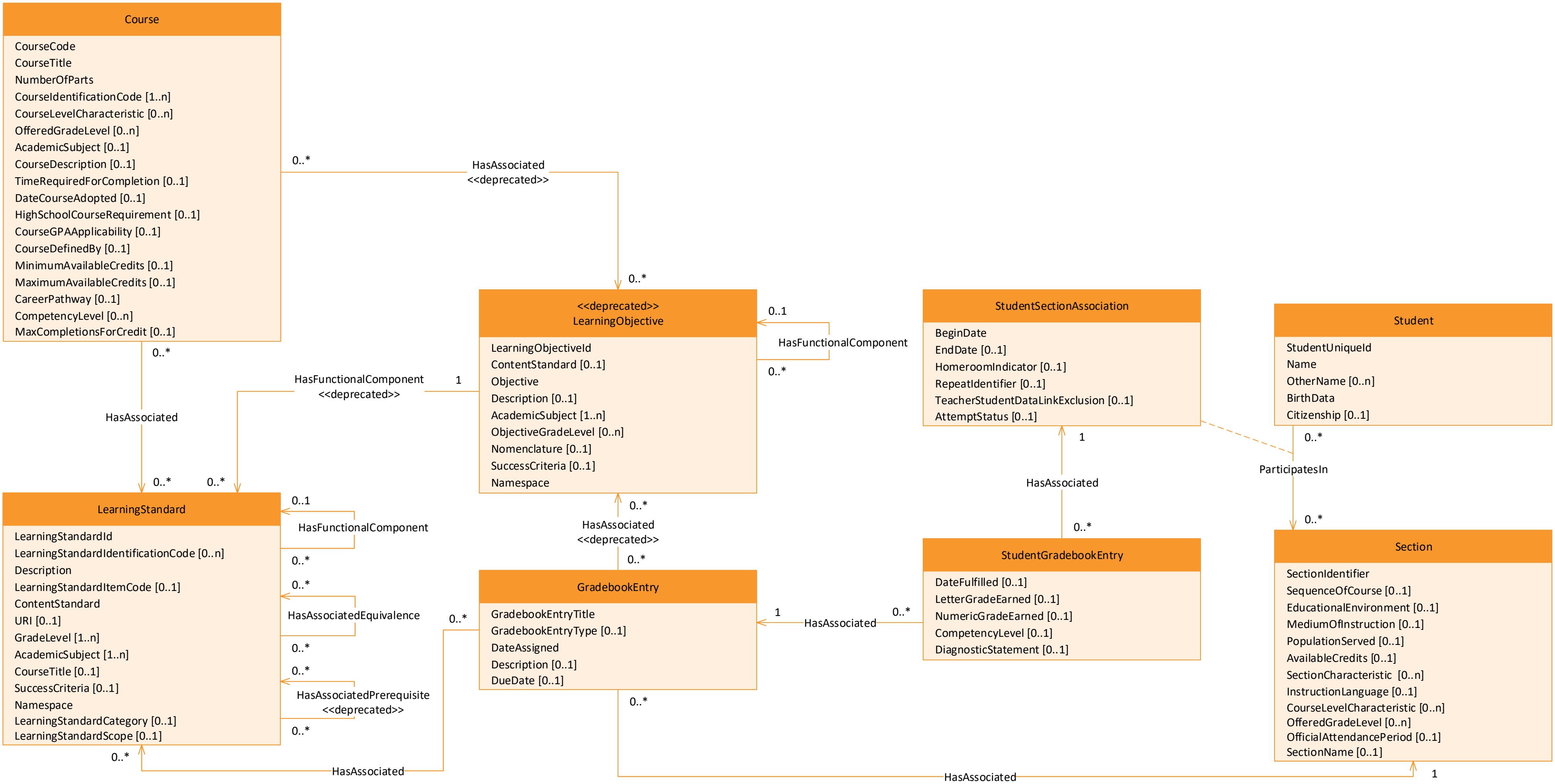




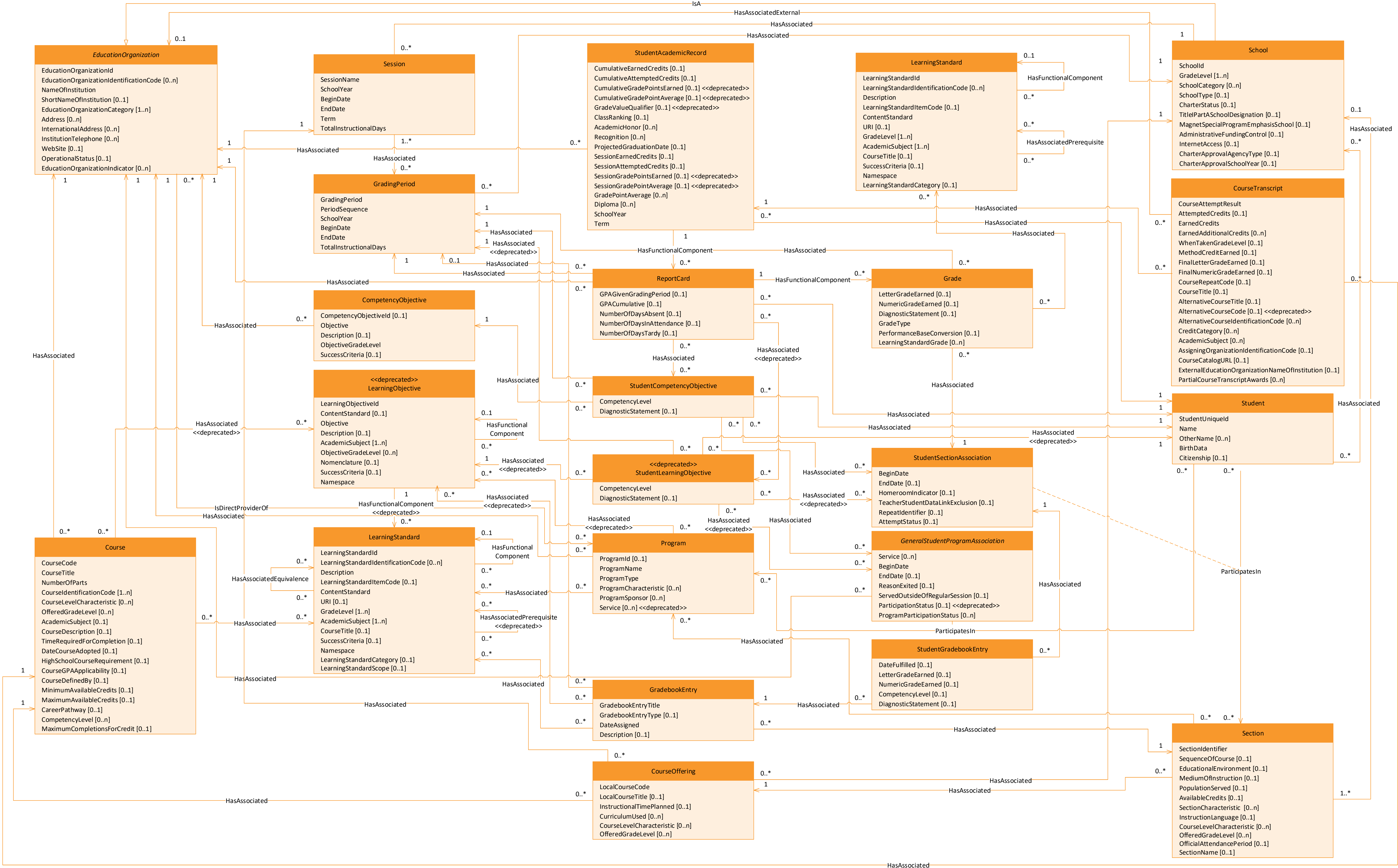


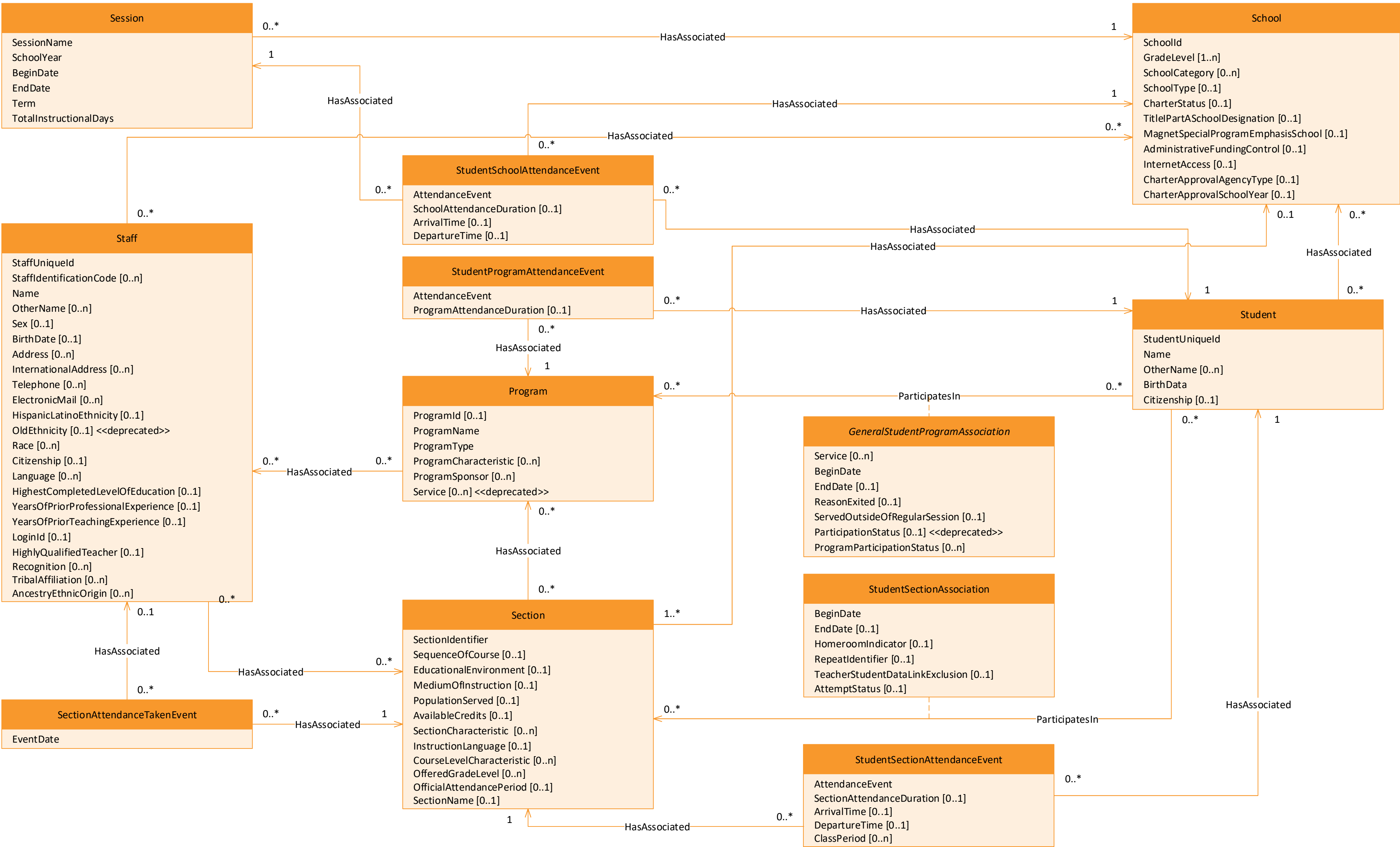












The model supports two styles of storing attendance:

1. One attendance event for each student-section, with instances for attendance, absences, and tardies.
2. "Exception only" attendance events, not including instances for sections attended, but only those absent or tardy. The period attribute TotalInstructionalDays is used to compute the number of days attended. Daily attendance may be derived from class period attendance, program attendance or recorded separately.

