

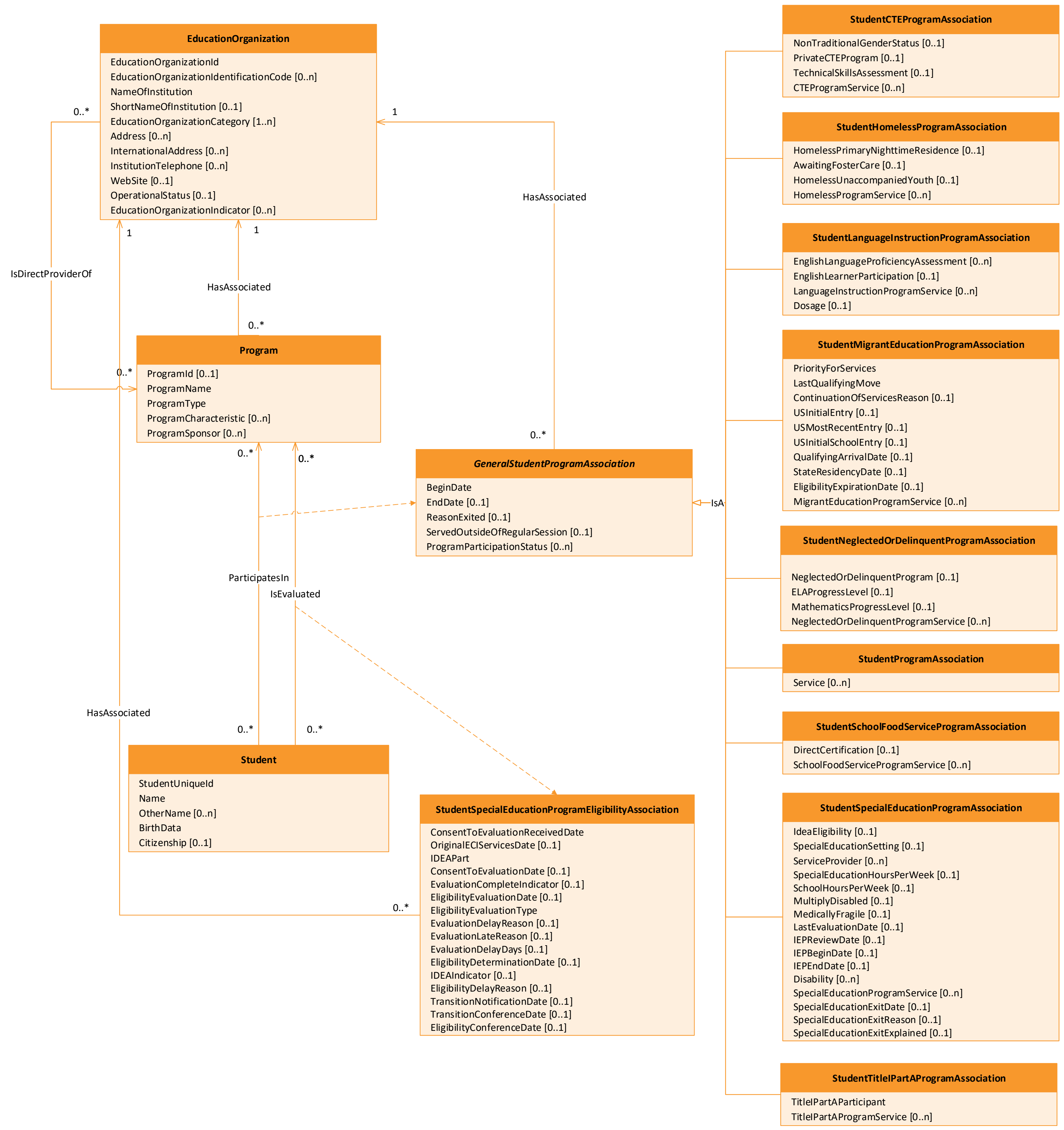
# Ed-Fi Unifying Data Model v5.x – UML Diagrams

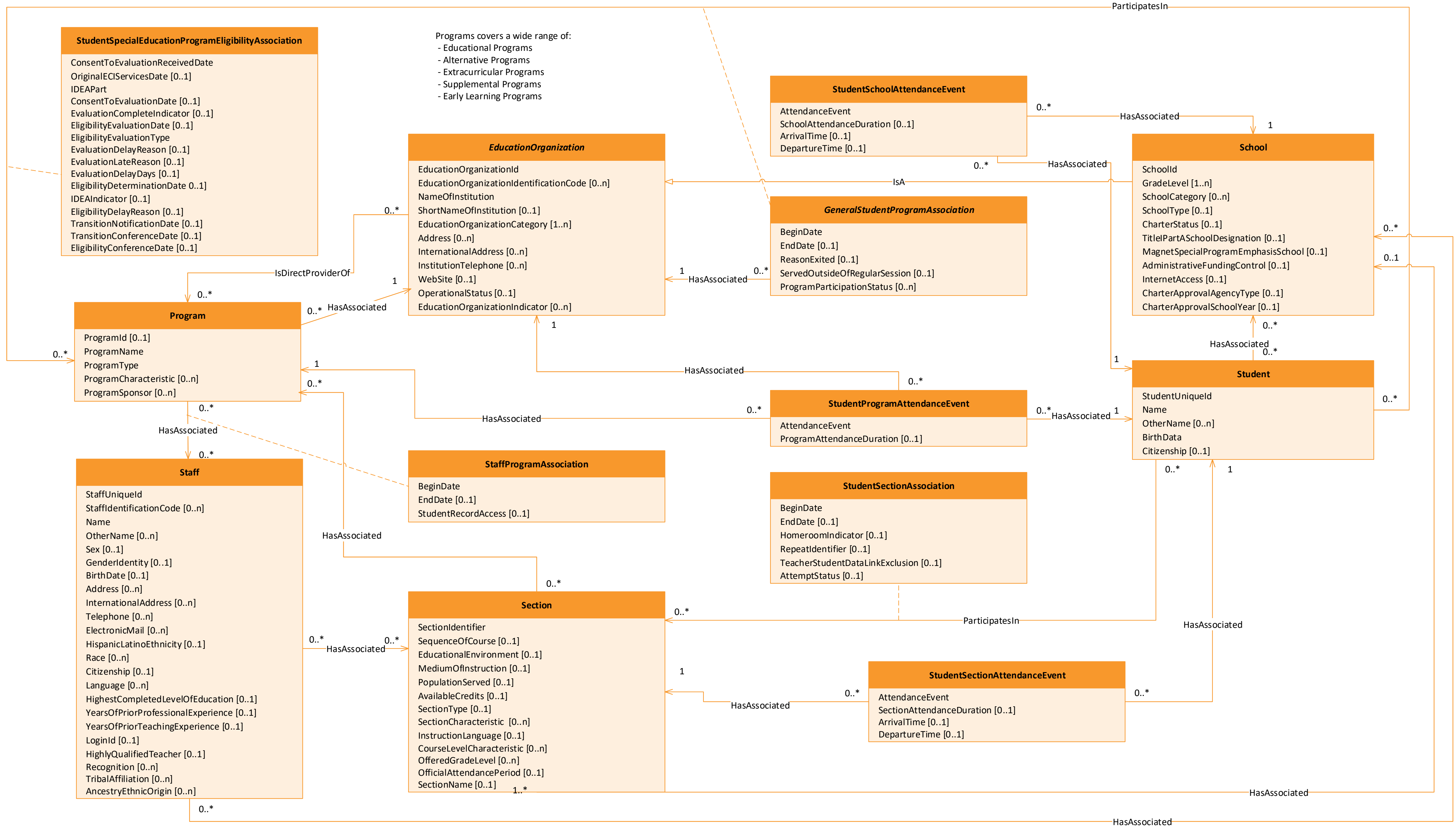
The Ed-Fi Unifying Data Model (UDM) is a conceptual model, and a common framework for the representation of data in the education domain. The UDM serves as the enterprise data model which is the basis for all Ed-Fi Data Exchange Standards.

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 v5.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/EFDS5/Ed-Fi+Data+Standard+v5>







## LearningStandard

LearningStandardId

LearningStandardIdentificationCode [0..n]

Description

LearningStandardItemCode [0..1]

ContentStandard

URI [0..1]

GradeLevel [1..n]

AcademicSubject [1..n]

CourseTitle [0..1]

SuccessCriteria [0..1]

Namespace

LearningStandardCategory [0..1]

LearningStandardScope [0..1]

0..1

HasFunctionalComponent

0..\*

0..\*

HasAssociatedEquivalence

0..\*

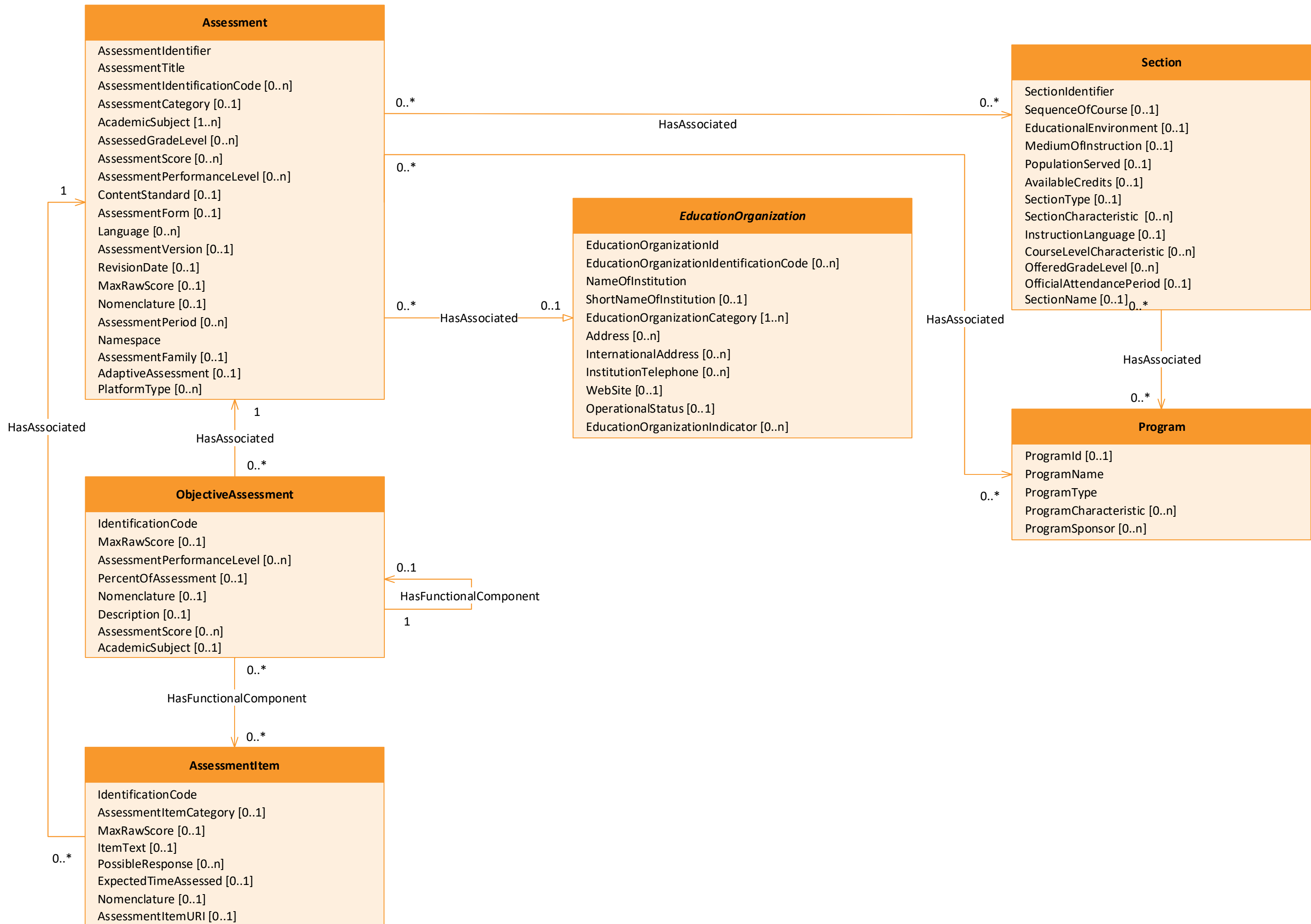
## LearningStandardEquivalenceAssociation

Namespace

EffectiveDate [0..1]

LearningStandardEquivalenceStrength [0..1]

LearningStandardEquivalenceStrengthDescription [0..1]

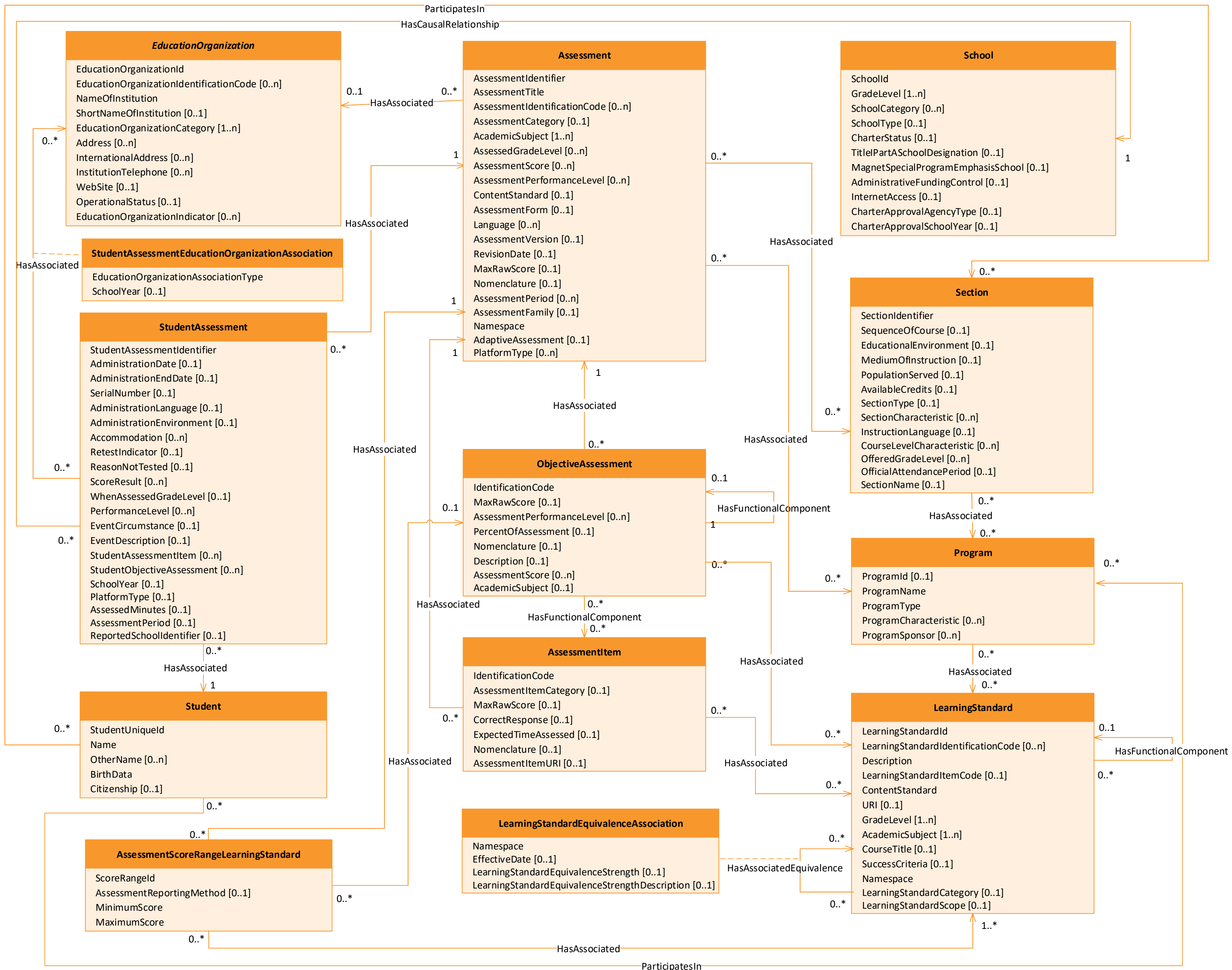


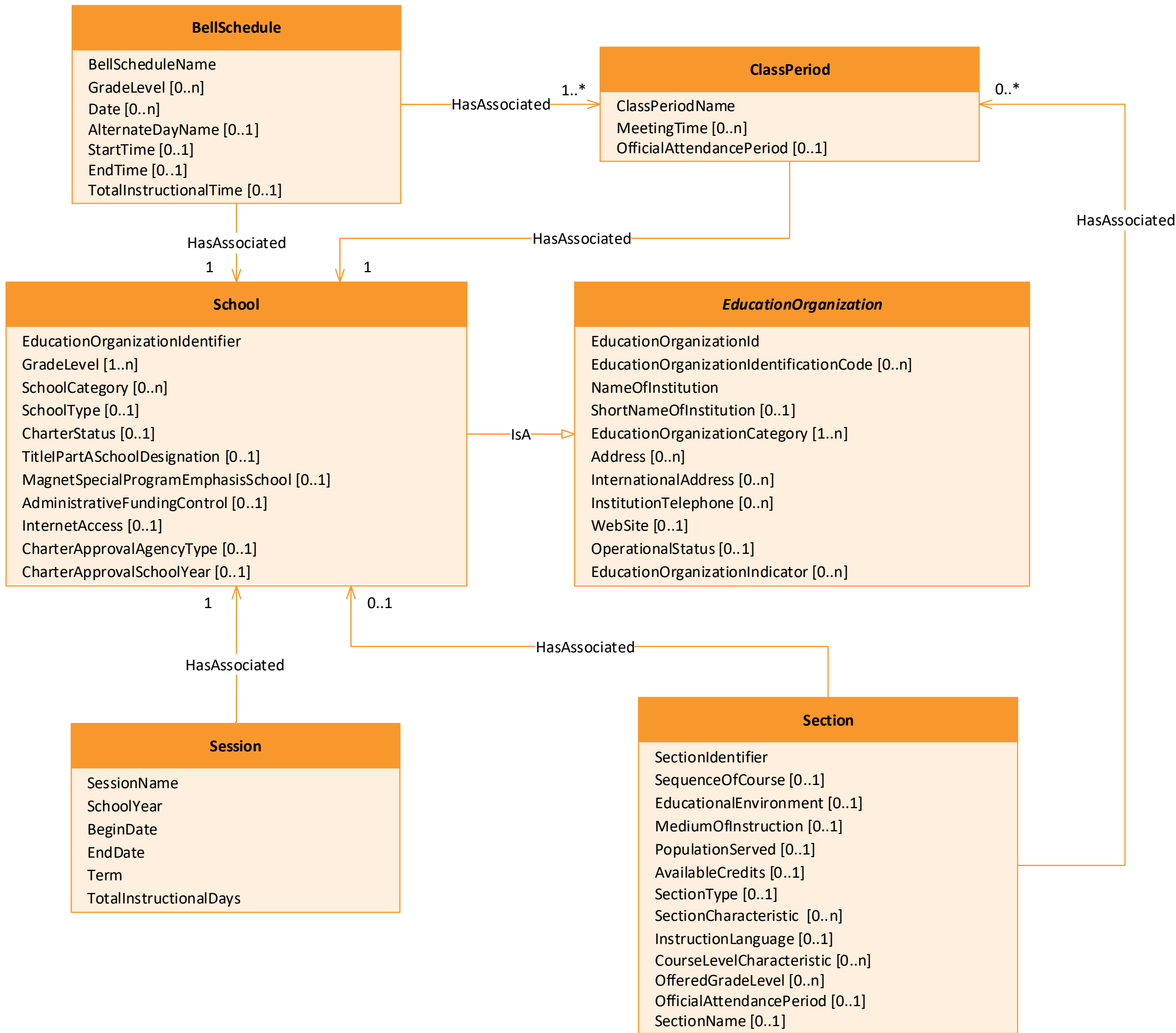
Student
StudentUniqueid
Name
OtherName [0..n]
BirthData
Citizenship [0..1]



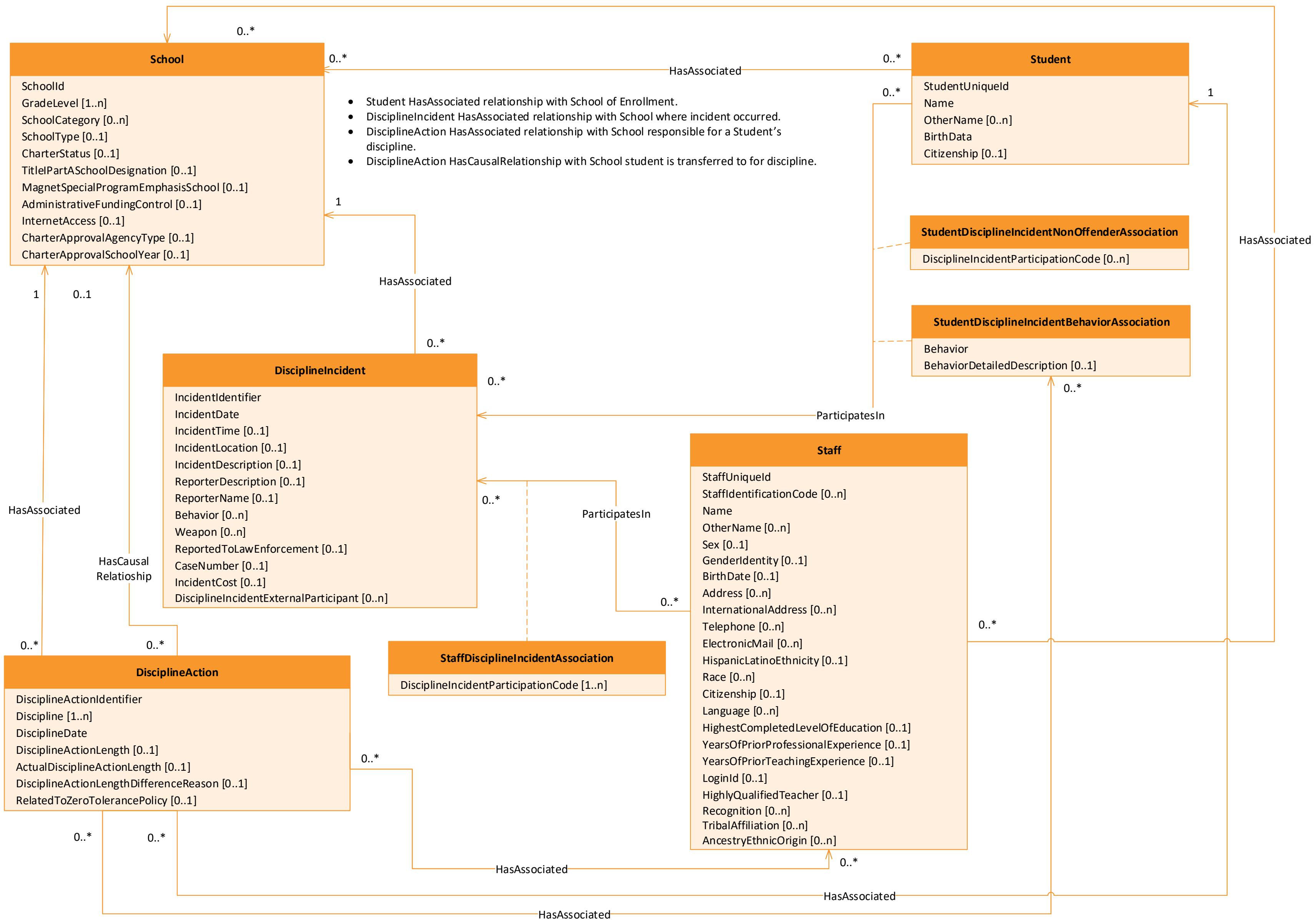
StudentAssessment
StudentAssessmentIdentifier
AdministrationDate [0..n]
AdministrationEndDate [0..1]
SerialNumber [0..1]
AdministrationLanguage [0..1]
AdministrationEnvironment [0..1]
Accommodation [0..n]
RetestIndicator [0..1]
ReasonNotTested [0..1]
ScoreResult [0..n]
WhenAssessedGradeLevel [0..1]
PerformanceLevel [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]

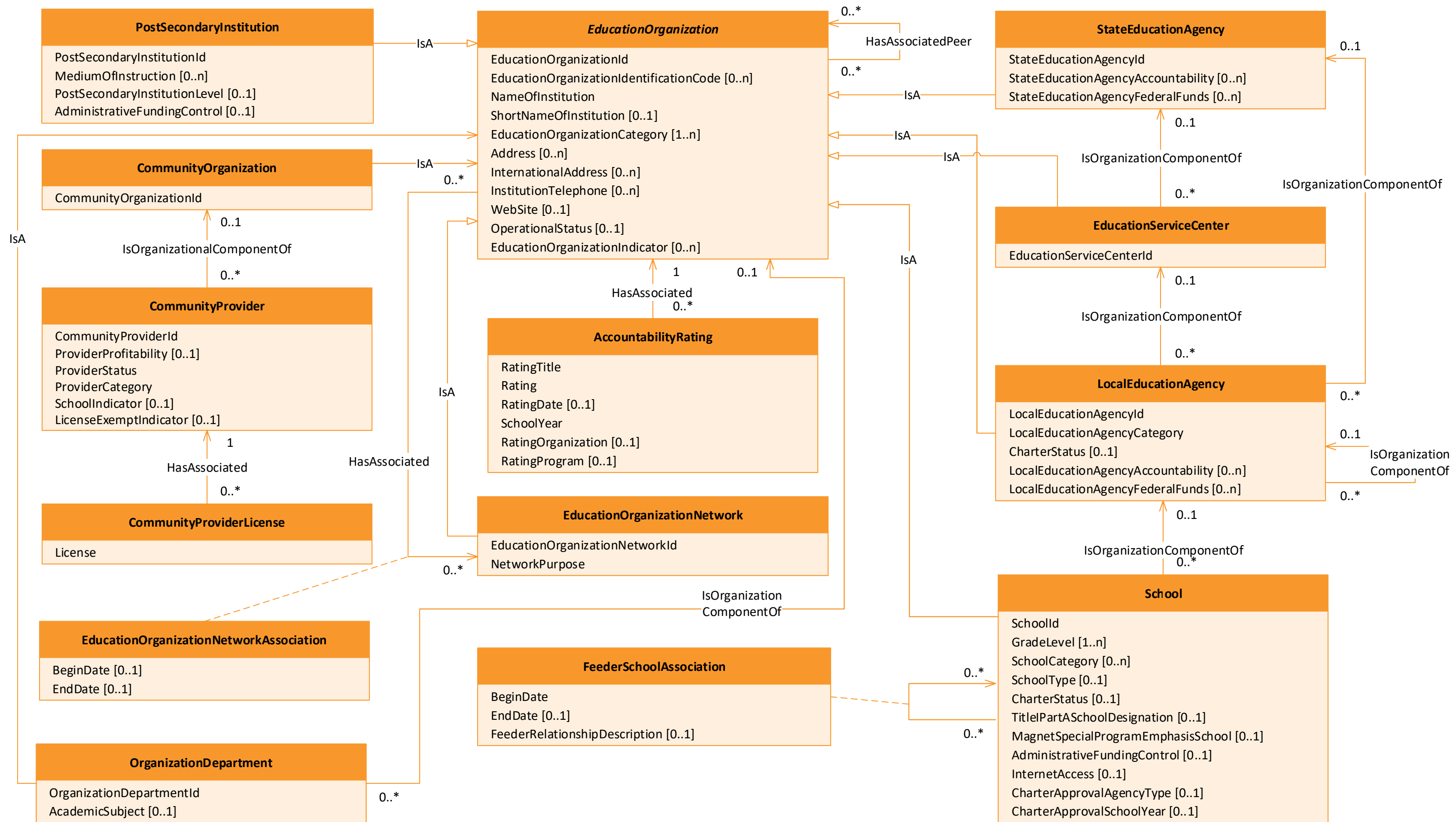


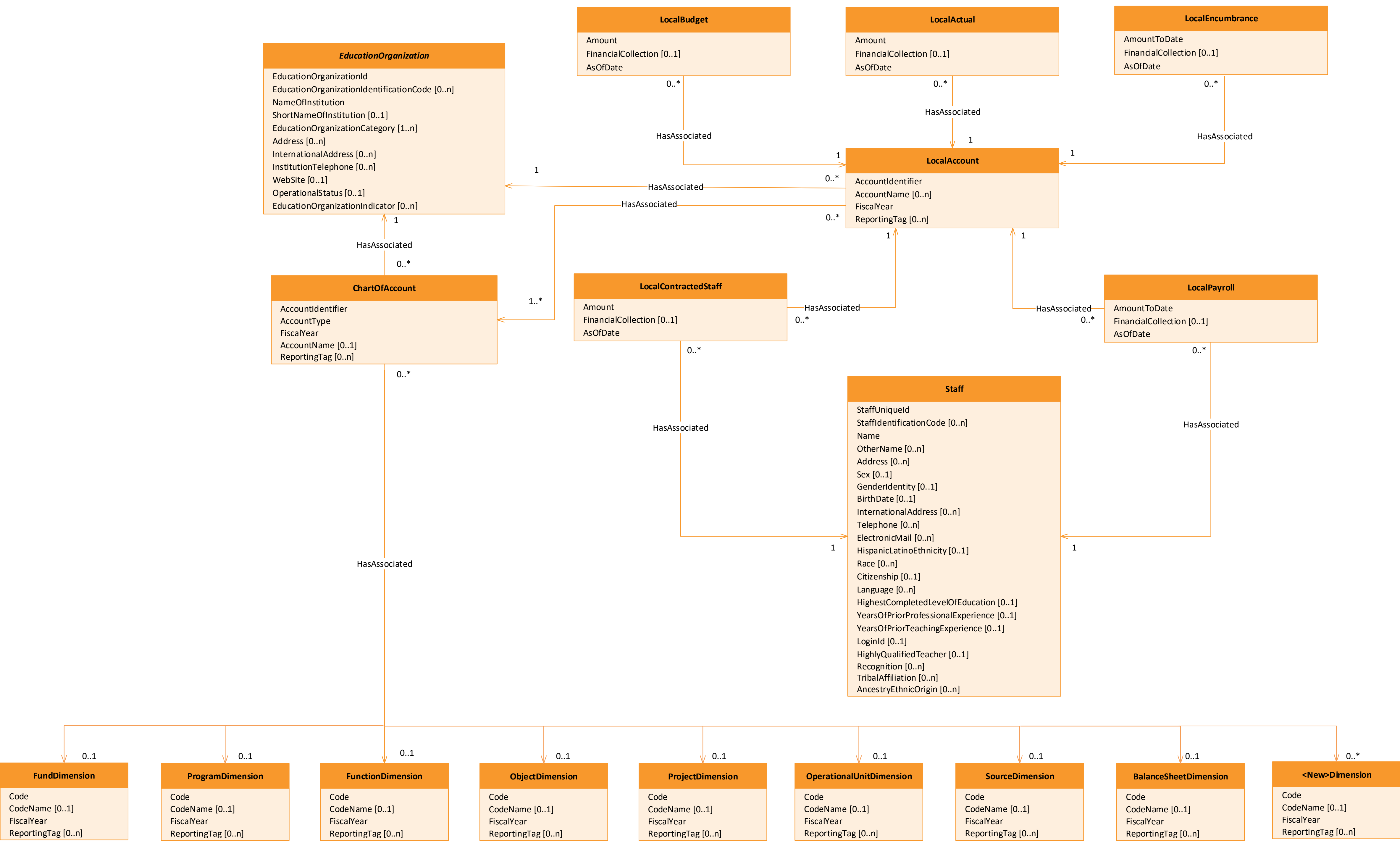


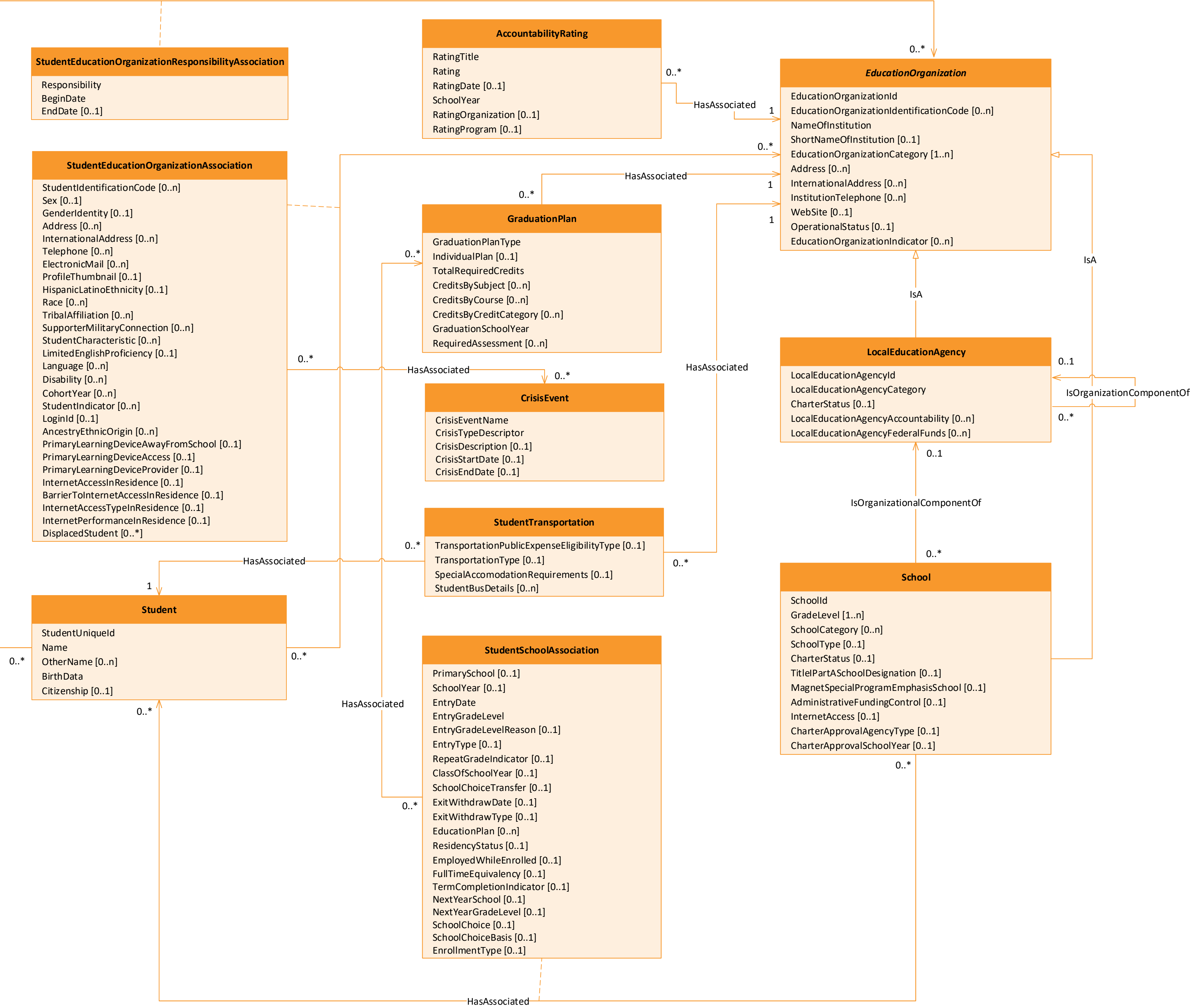


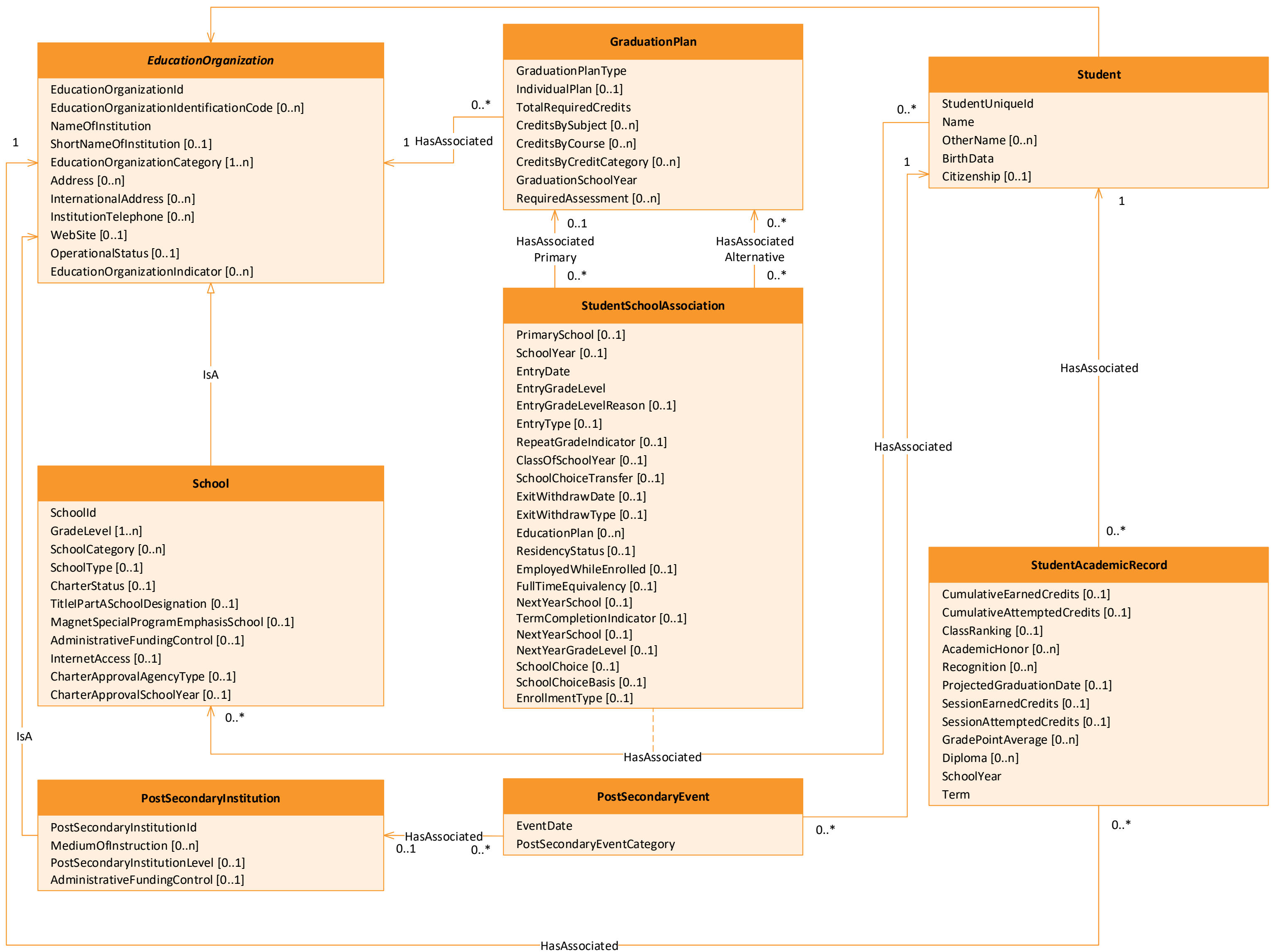




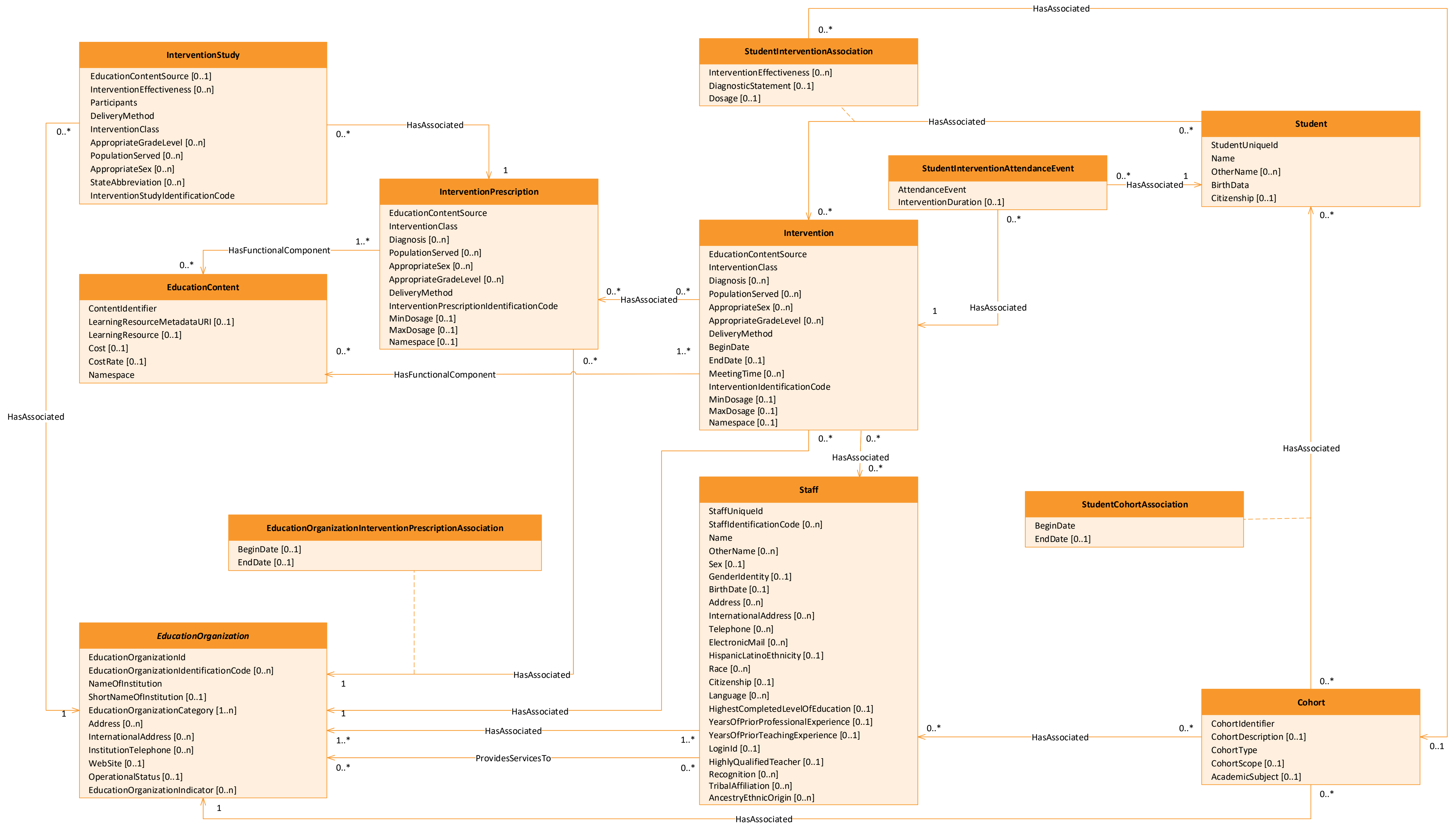


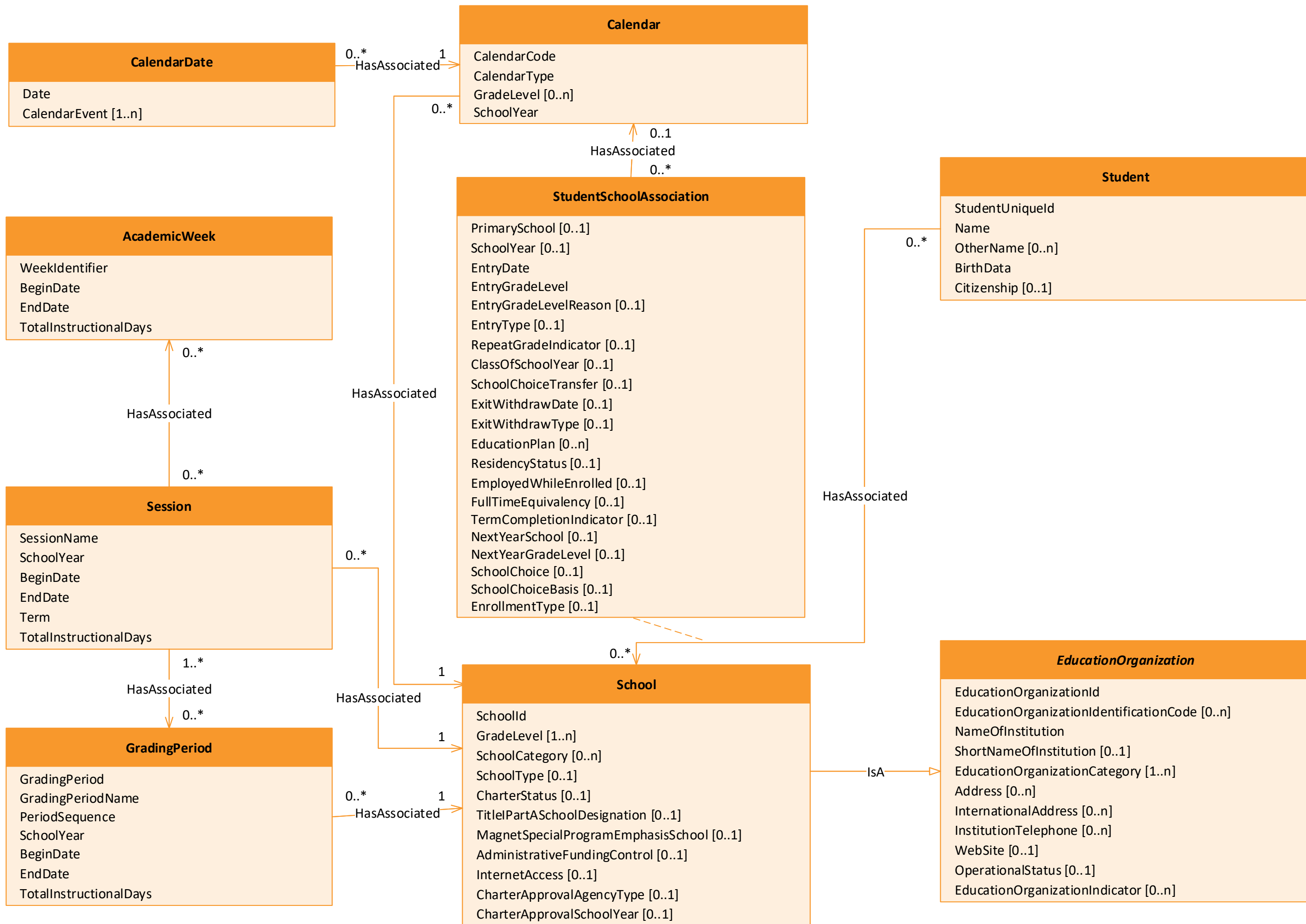




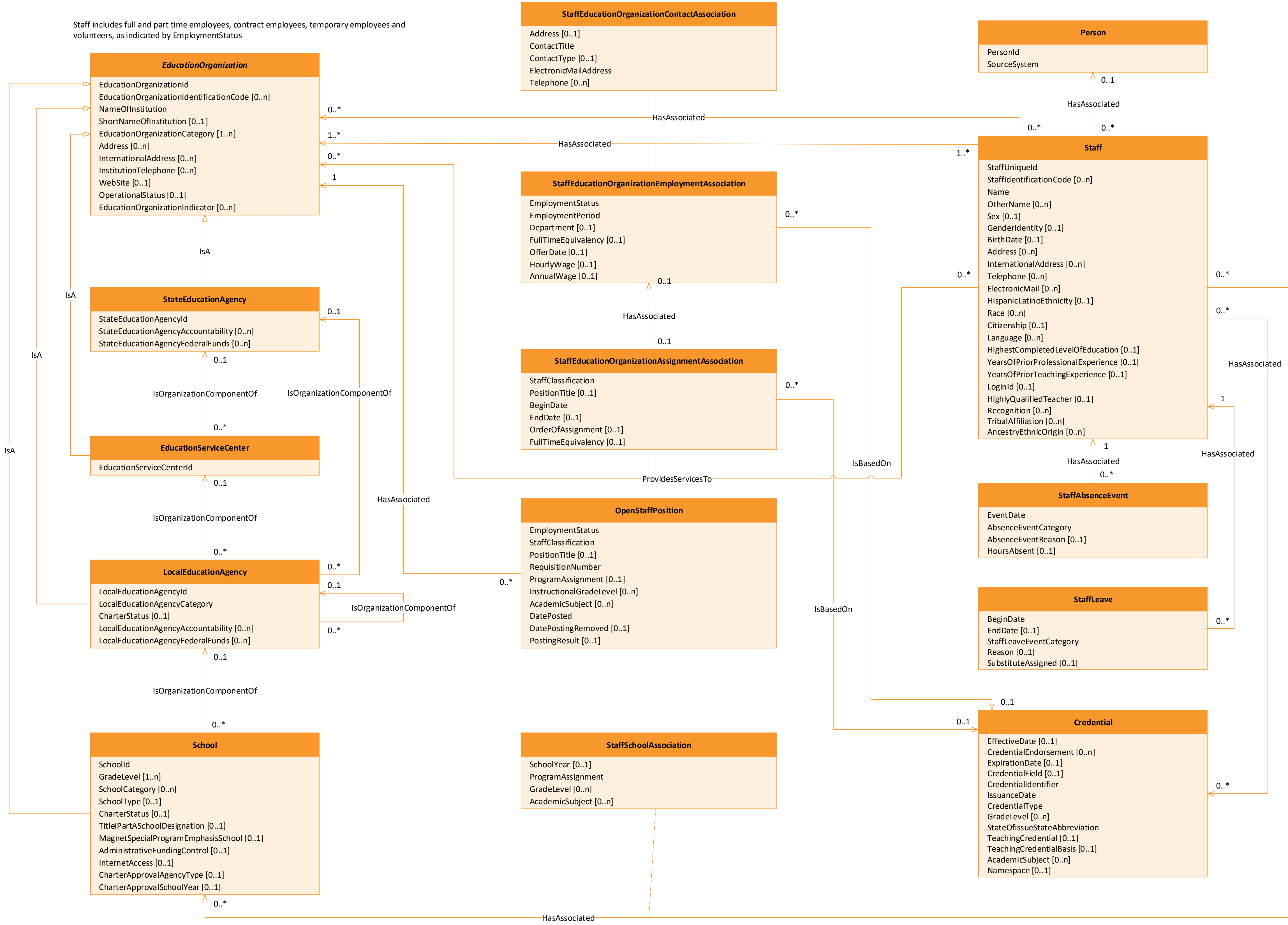


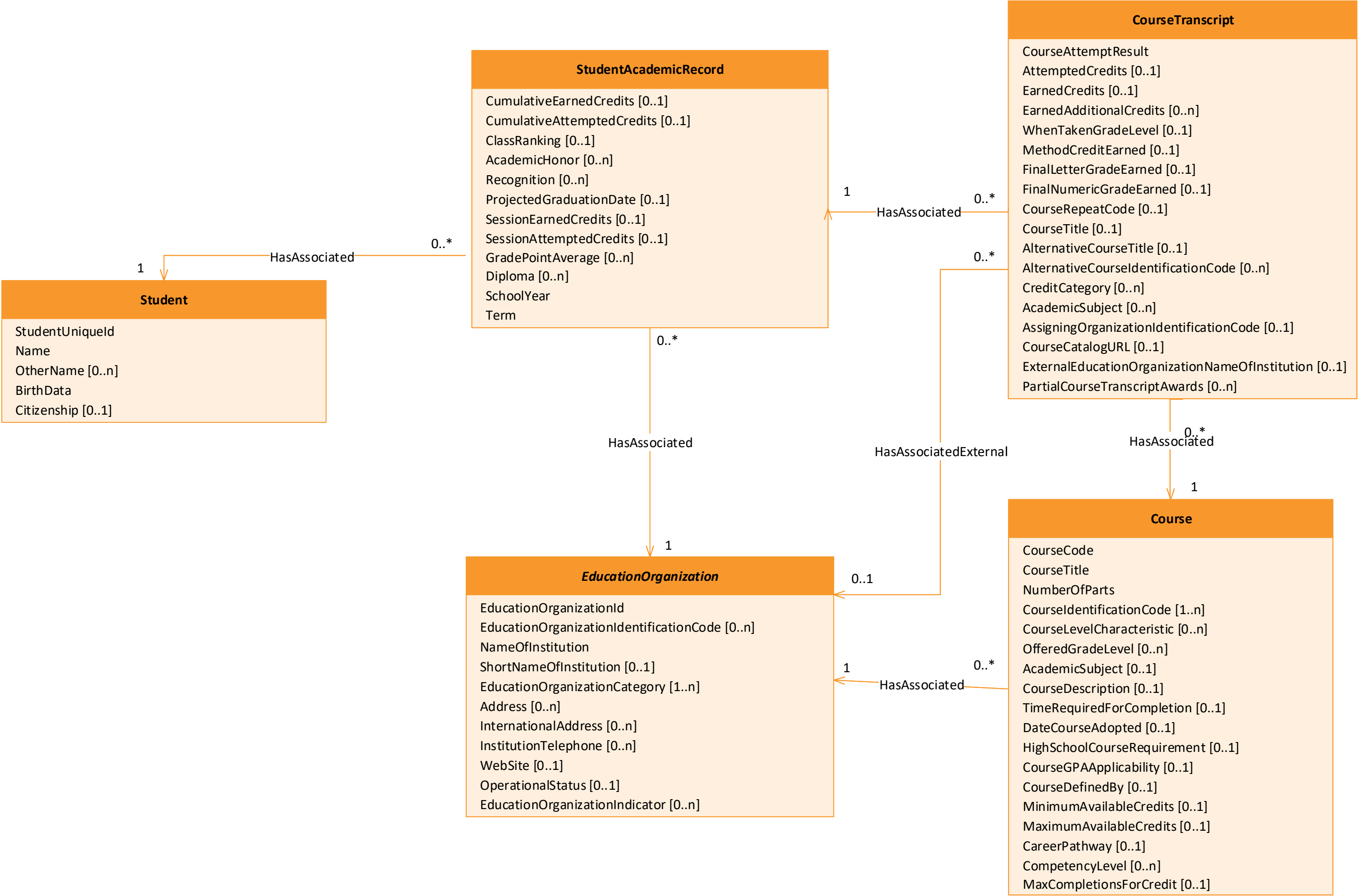


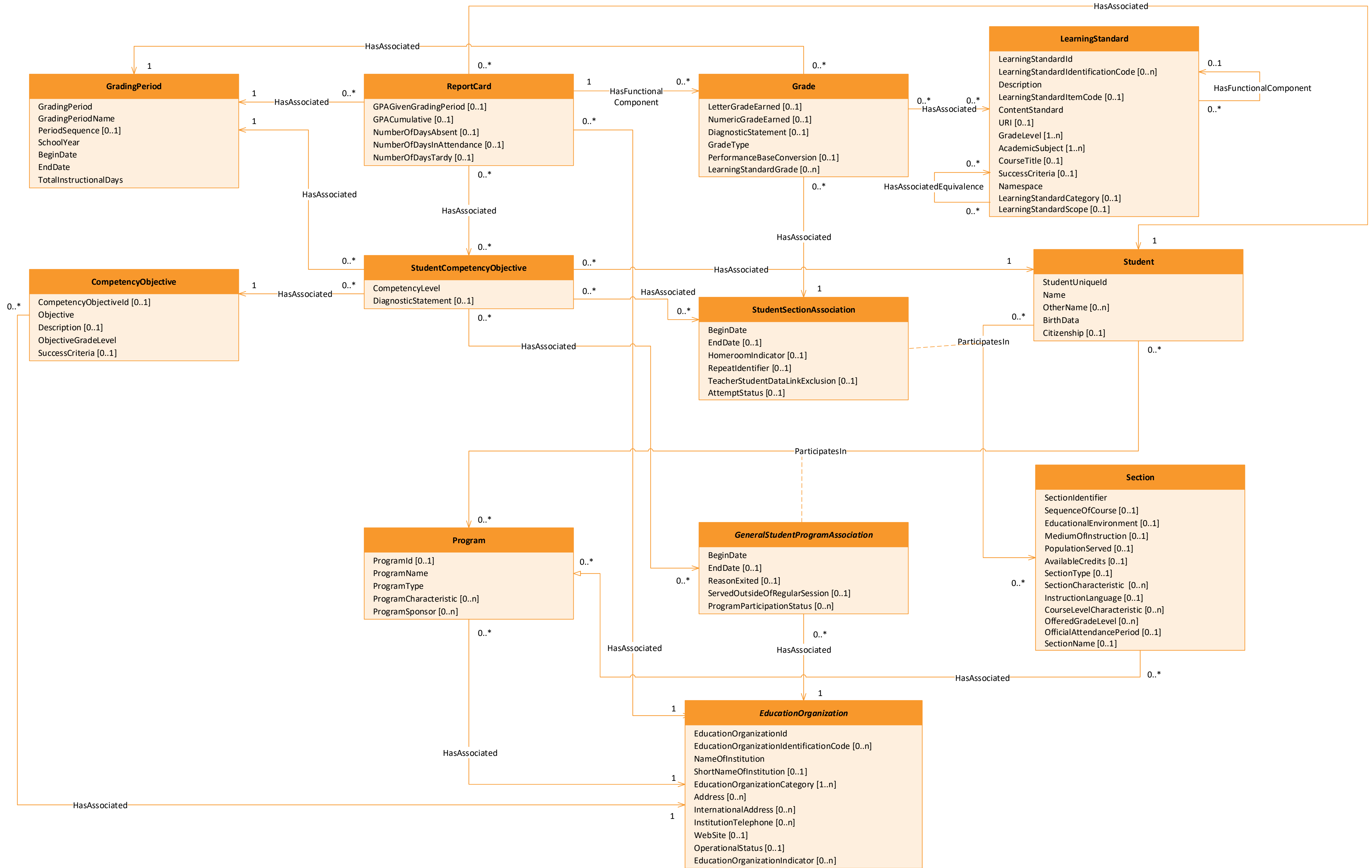


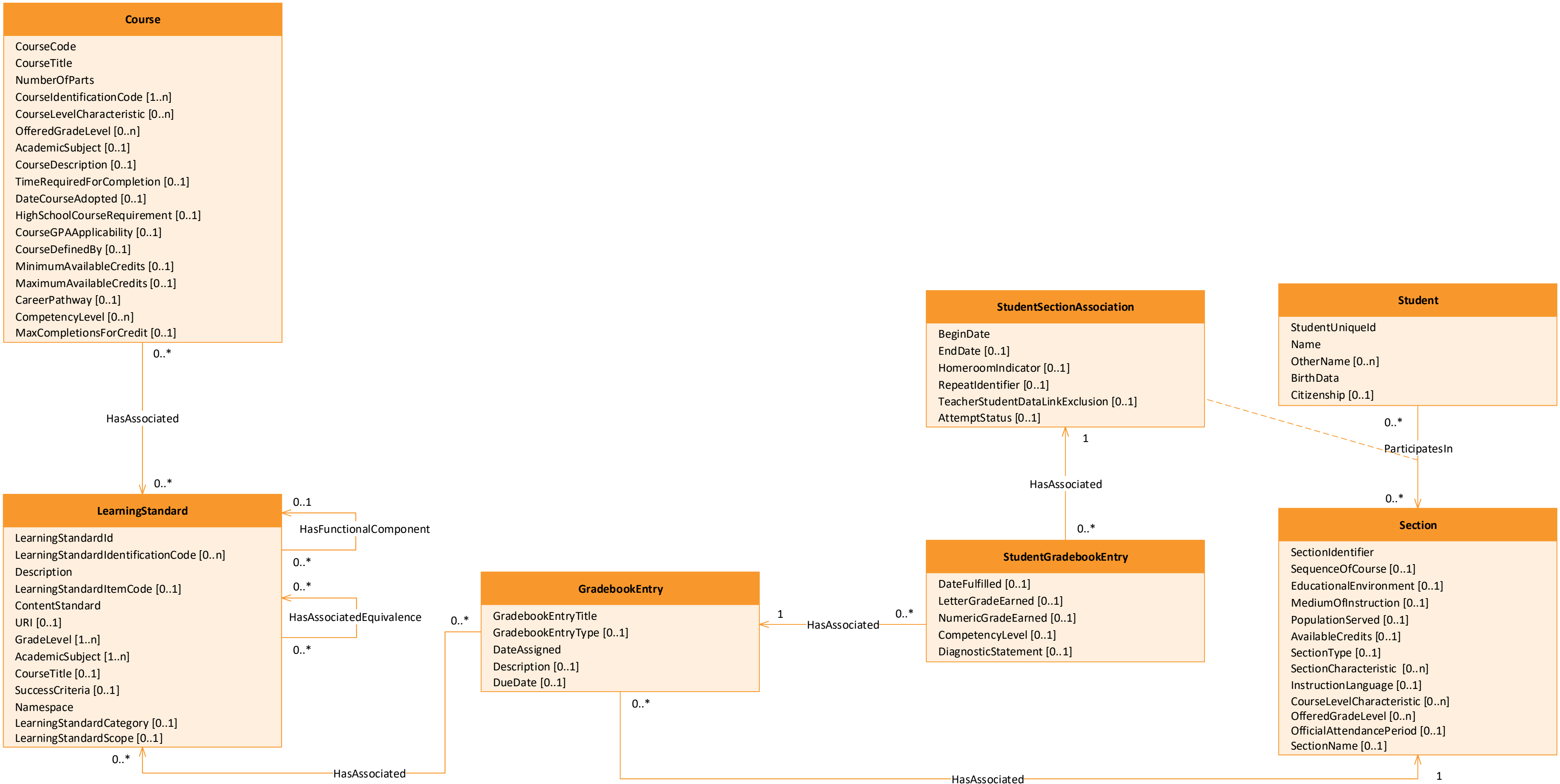




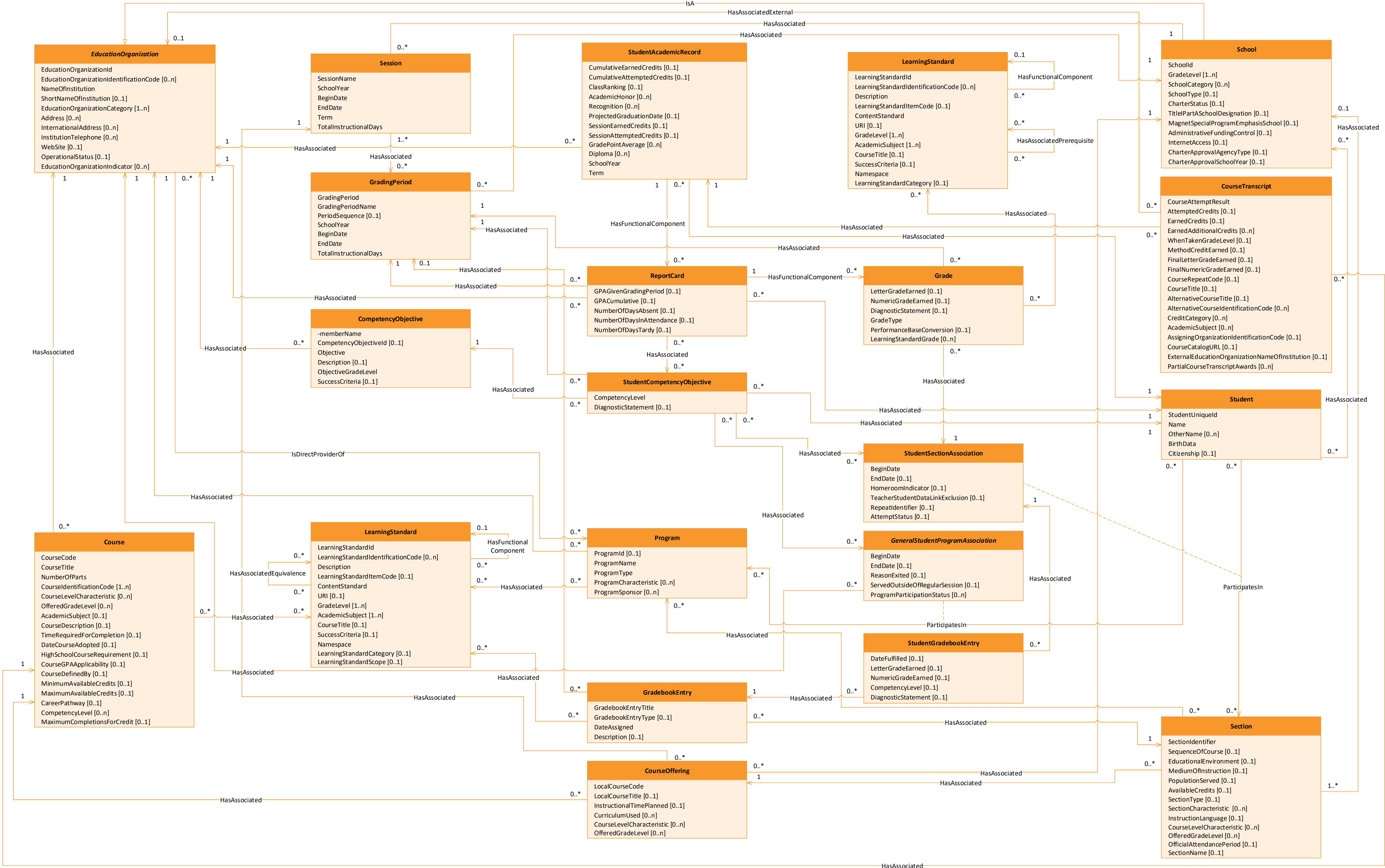


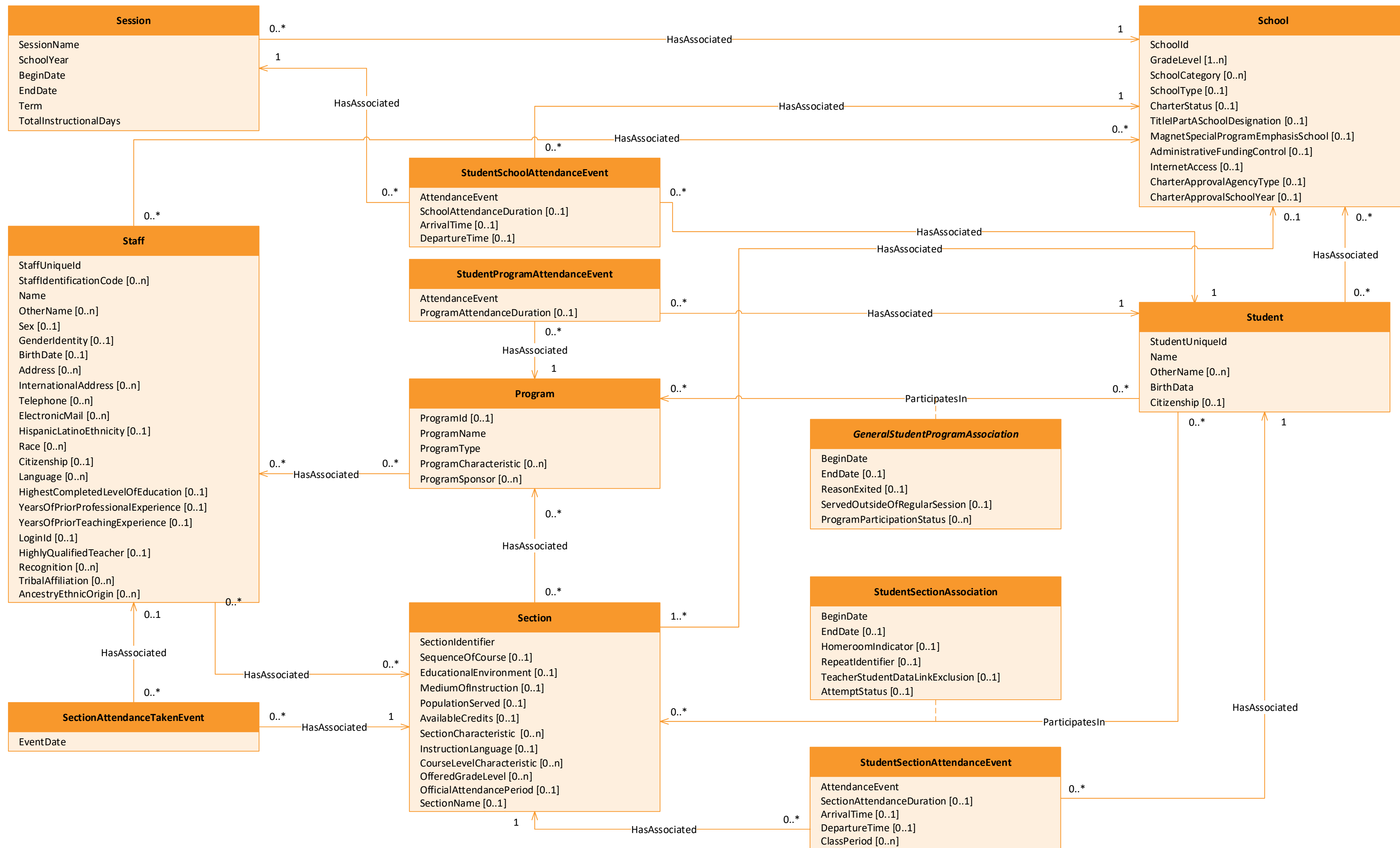






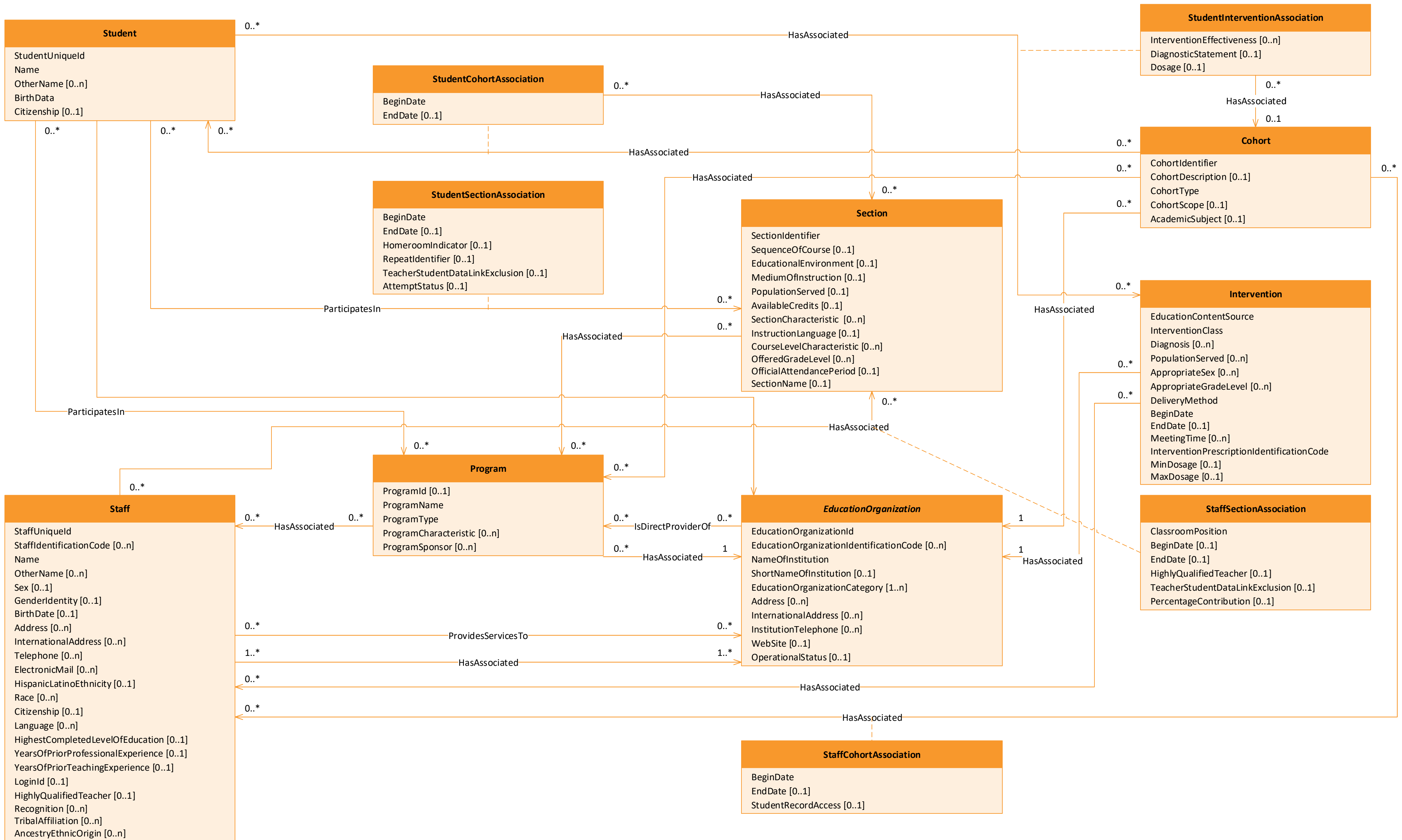




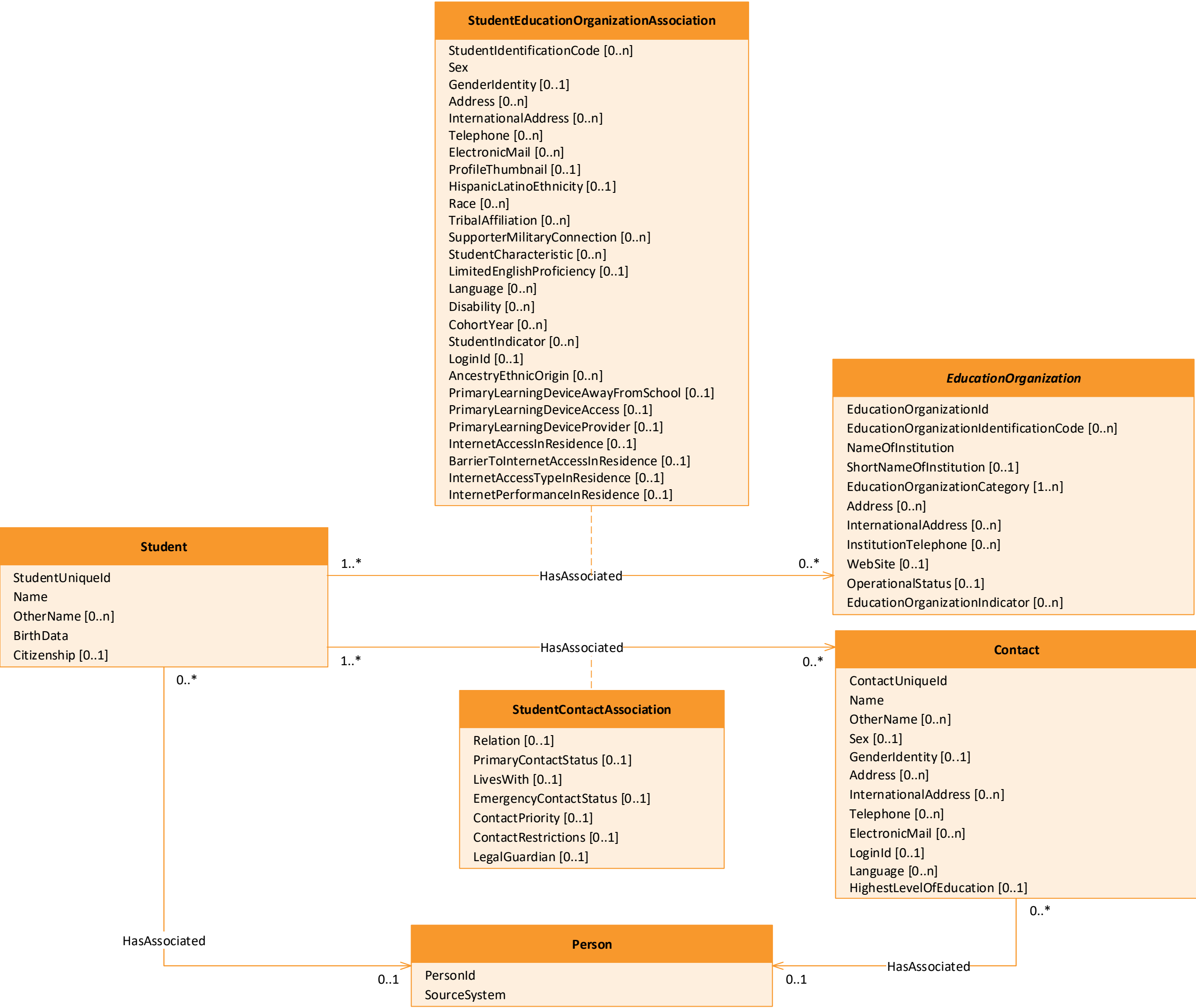


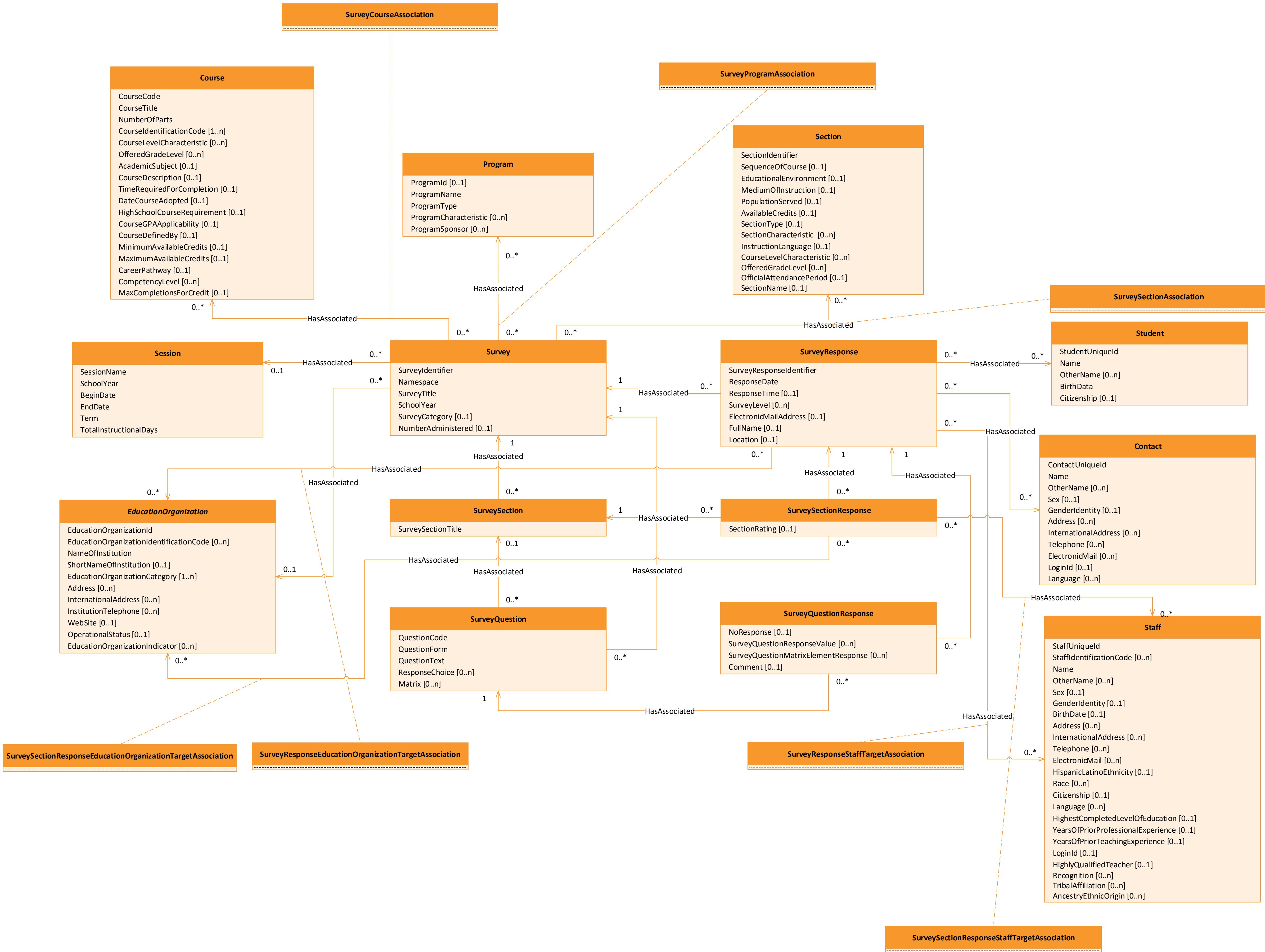
The model supports two styles of storing attendance:

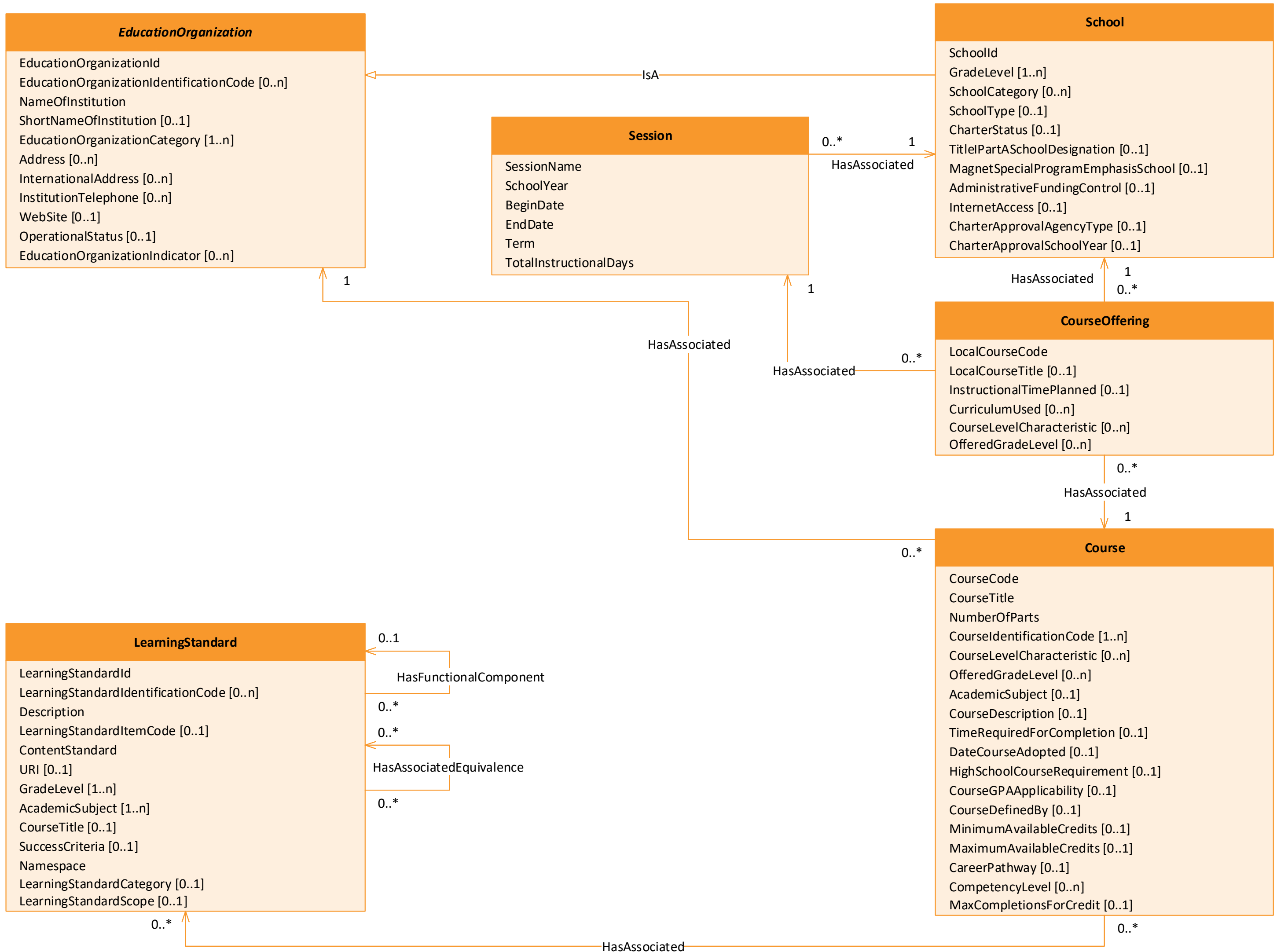
1. One attendance event for each student-section, with instances for attendance, absences, and tardies.
2. "Exception only" attendance events, not including instances for sections attended, but only those absent or tardy. The period attribute `TotalInstructionalDays` is used to compute the number of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

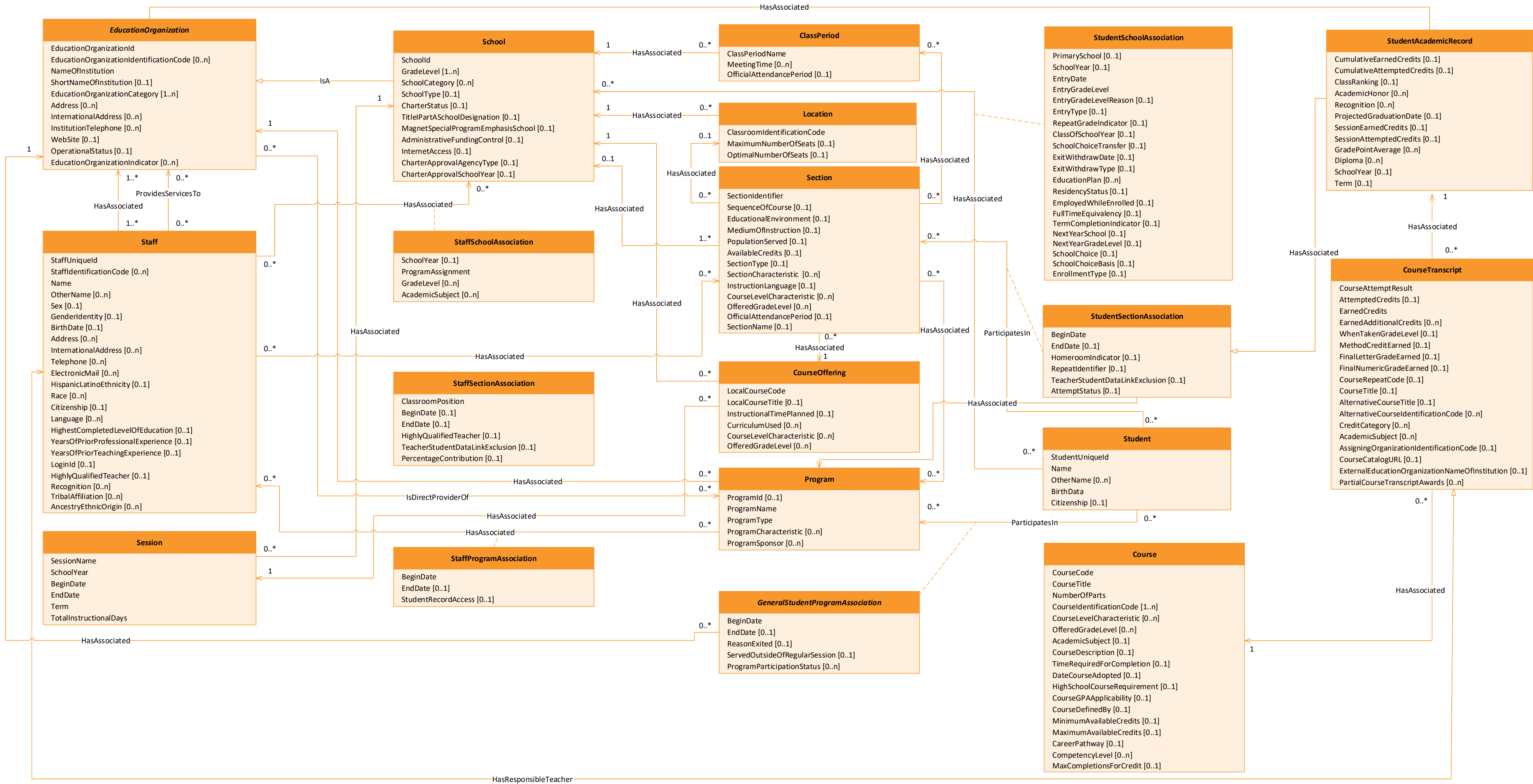




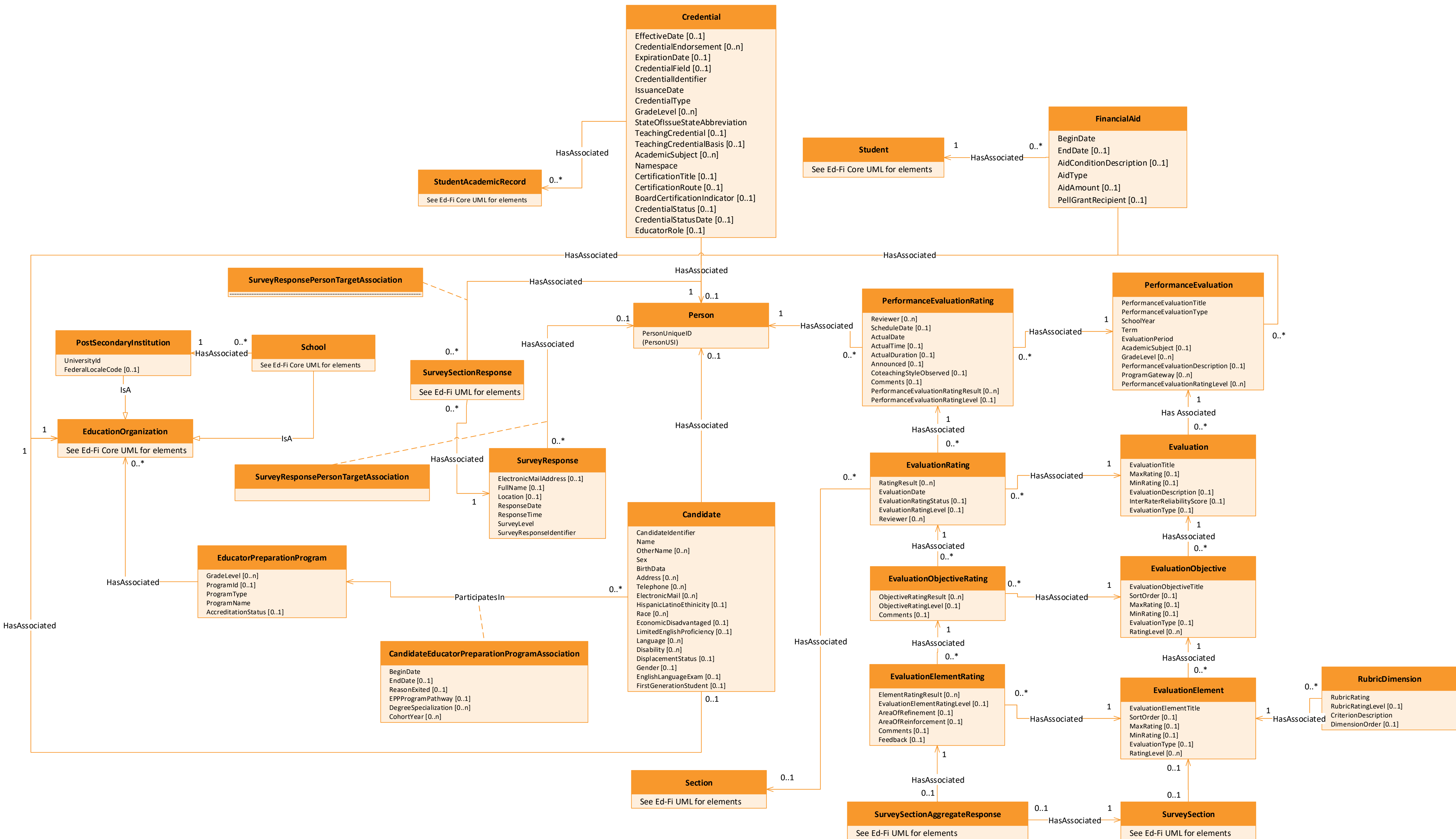


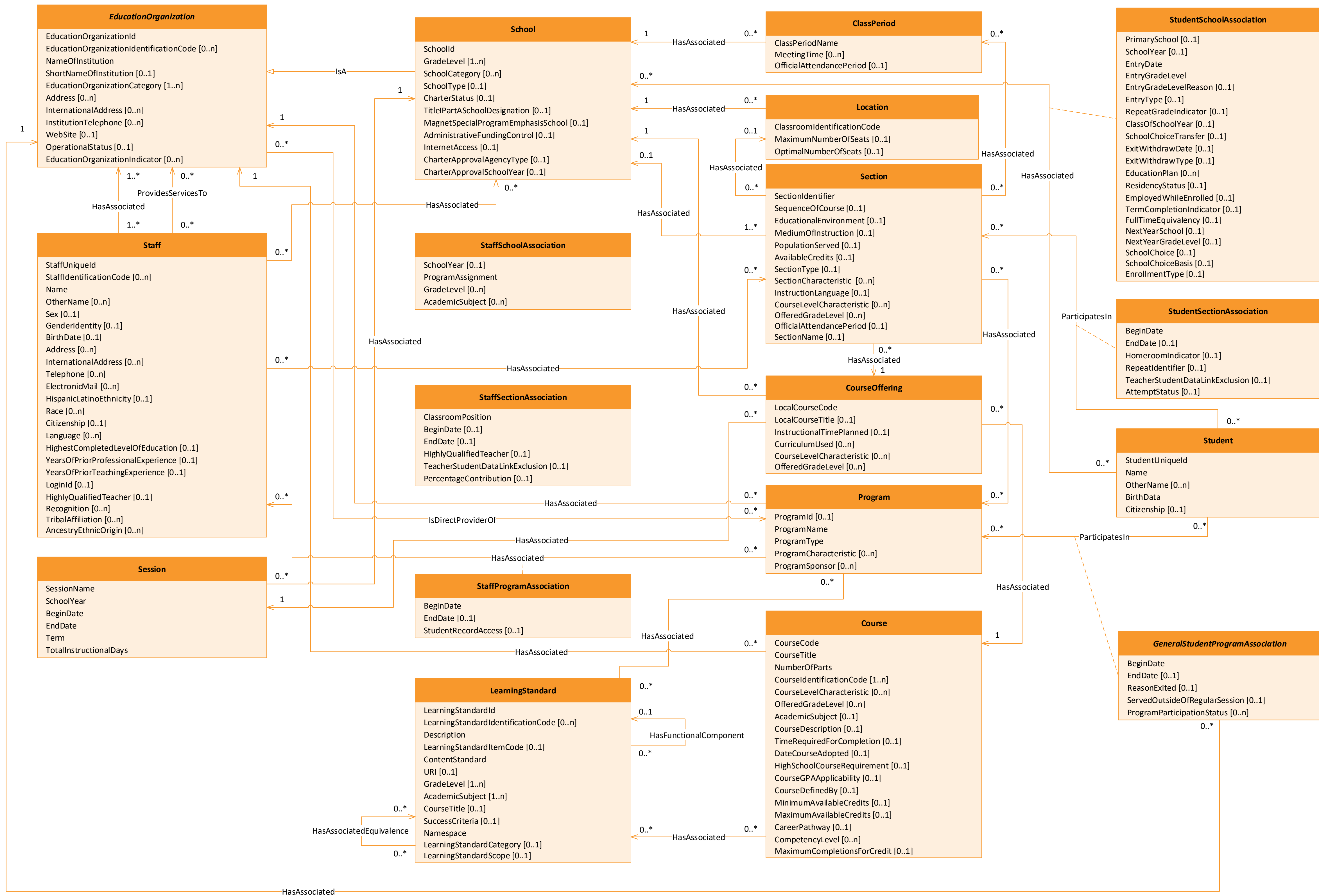


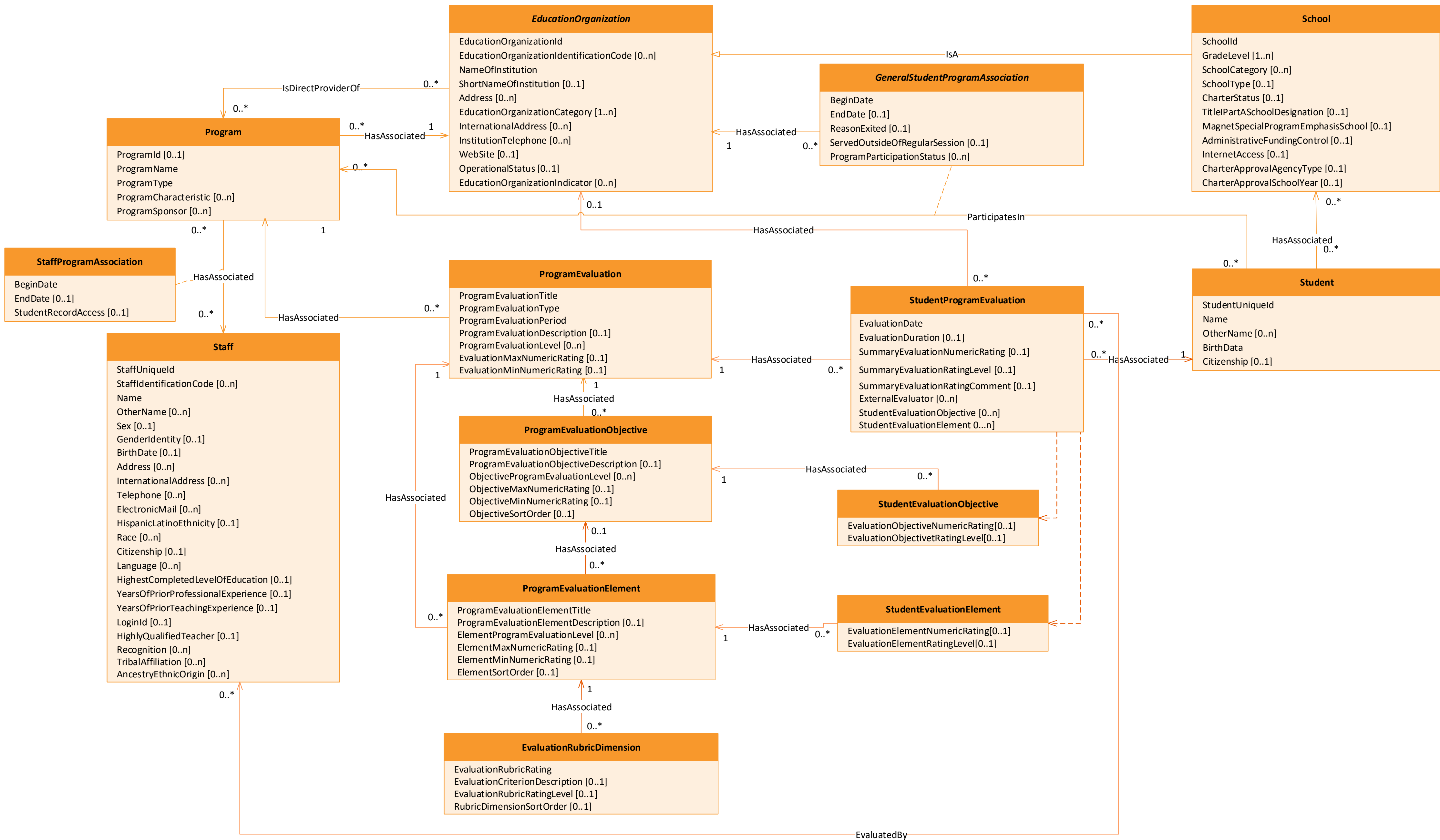














### ***EducationOrganization***

EducationOrganizationId  
EducationOrganizationIdentificationCode [0..n]  
NameOfInstitution  
ShortNameOfInstitution [0..1]  
EducationOrganizationCategory [1..n]  
Address [0..n]  
InternationalAddress [0..n]  
InstitutionTelephone [0..n]  
WebSite [0..1]  
OperationalStatus [0..1]  
EducationOrganizationIndicator [0..n]

### **StudentHealth**

AsOfDate  
RequiredImmunization [0..n]  
AdditionalImmunization [0..n]  
NonMedicalImmunizationExemption [0..1]  
NonMedicalImmunizationExemptionDate [0..1]

HasAssociated

1

0..\*

HasAssociated

0..\*

1

### **Student**

StudentUniqueId  
Name  
OtherName [0..n]  
BirthData  
Citizenship [0..1]

<i>EducationOrganization</i>
EducationOrganizationId
EducationOrganizationIdentificationCode [0..n]
NameOfInstitution
ShortNameOfInstitution [0..1]
EducationOrganizationCategory [1..n]
Address [0..n]
InternationalAddress [0..n]
InstitutionTelephone [0..n]
WebSite [0..1]
OperationalStatus [0..1]
EducationOrganizationIndicator [0..n]

Staff
StaffUniqueId
StaffIdentificationCode [0..n]
Name
OtherName [0..n]
Sex [0..1]
GenderIdentity [0..1]
BirthDate [0..1]
Address [0..n]
InternationalAddress [0..n]
Telephone [0..n]
ElectronicMail [0..n]
HispanicLatinoEthnicity [0..1]
Race [0..n]
Citizenship [0..1]
Language [0..n]
HighestCompletedLevelOfEducation [0..1]
YearsOfPriorProfessionalExperience [0..1]
YearsOfPriorTeachingExperience [0..1]
LoginId [0..1]
HighlyQualifiedTeacher [0..1]
Recognition [0..n]
TribalAffiliation [0..n]
AncestryEthnicOrigin [0..n]

StaffProgramAssociation
BeginDate
EndDate [0..1]
StudentRecordAccess [0..1]

StaffSectionAssociation
ClassroomPosition
BeginDate [0..1]
EndDate [0..1]
HighlyQualifiedTeacher [0..1]
TeacherStudentDataLinkExclusion [0..1]
PercentageContribution [0..1]

StudentSpecialEducationProgramAssociation
IdeaEligibility [0..1]
SpecialEducationSetting [0..1]
ServiceProvider [0..n]
SpecialEducationHoursPerWeek [0..1]
SchoolHoursPerWeek [0..1]
MultiplyDisabled [0..1]
MedicallyFragile [0..1]
LastEvaluationDate [0..1]
IEPReviewDate [0..1]
IEPBeginDate [0..1]
IEPEndDate [0..1]
Disability [0..n]
SpecialEducationProgramService [0..n]
SpecialEducationExitDate [0..1]
SpecialEducationExitReason [0..1]
SpecialEducationExitExplained [0..1]

Section
SectionIdentifier
SequenceOfCourse [0..1]
EducationalEnvironment [0..1]
MediumOfInstruction [0..1]
PopulationServed [0..1]
AvailableCredits [0..1]
SectionCharacteristic [0..n]
InstructionLanguage [0..1]
CourseLevelCharacteristic [0..n]
OfferedGradeLevel [0..n]
OfficialAttendancePeriod [0..1]
SectionName [0..1]

StudentSectionAssociation
BeginDate
EndDate [0..1]
HomeroomIndicator [0..1]
RepeatIdentifier [0..1]
TeacherStudentDataLinkExclusion [0..1]
AttemptStatus [0..1]

StudentSectionAttendanceEvent
AttendanceEvent
SectionAttendanceDuration [0..1]
ArrivalTime [0..1]
DepartureTime [0..1]

Program
ProgramId [0..1]
ProgramName
ProgramType
ProgramCharacteristic [0..n]
ProgramSponsor [0..n]

Student
StudentUniqueId
Name
OtherName [0..n]
BirthDate
Citizenship [0..1]

School
SchoolId
GradeLevel [1..n]
SchoolCategory [0..n]
SchoolType [0..1]
CharterStatus [0..1]
TitleIPartASchoolDesignation [0..1]
MagnetSpecialProgramEmphasisSchool [0..1]
AdministrativeFundingControl [0..1]
InternetAccess [0..1]
CharterApprovalAgencyType [0..1]
CharterApprovalSchoolYear [0..1]

GeneralStudentProgramAssociation
BeginDate
EndDate [0..1]
ReasonExited [0..1]
ServedOutsideOfRegularSession [0..1]
ProgramParticipationStatus [0..n]

StudentProgramAttendanceEvent
AttendanceEvent
ProgramAttendanceDuration [0..1]

RestraintEvent
RestraintEventIdentifier
EventDate
ProgramType
ProgramCharacteristic [0..n]
ProgramSponsor [0..n]

StudentSchoolAttendanceEvent
AttendanceEvent
SchoolAttendanceDuration [0..1]
ArrivalTime [0..1]
DepartureTime [0..1]

