

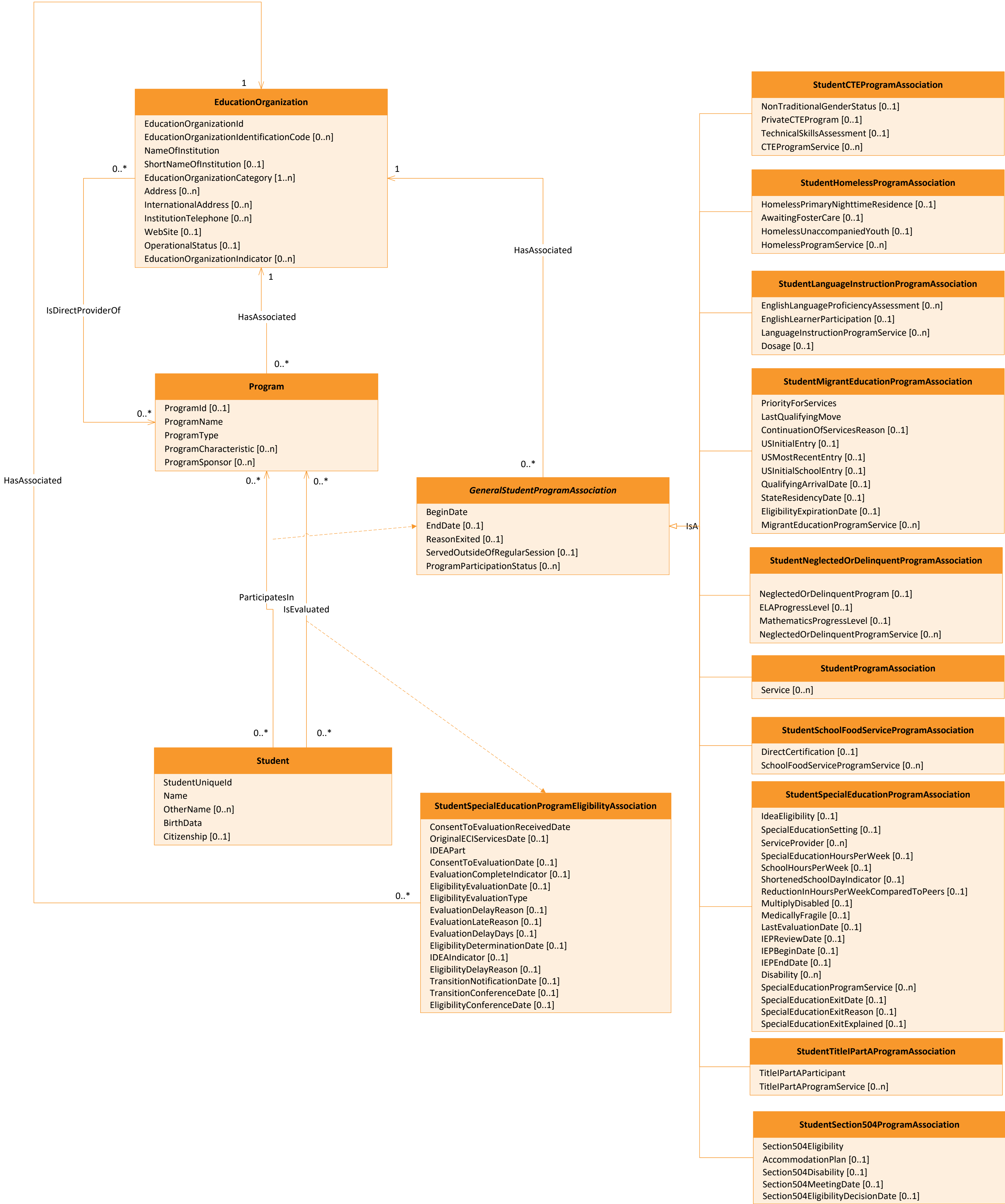
Ed-Fi Unifying Data Model v5.x – UML Diagrams

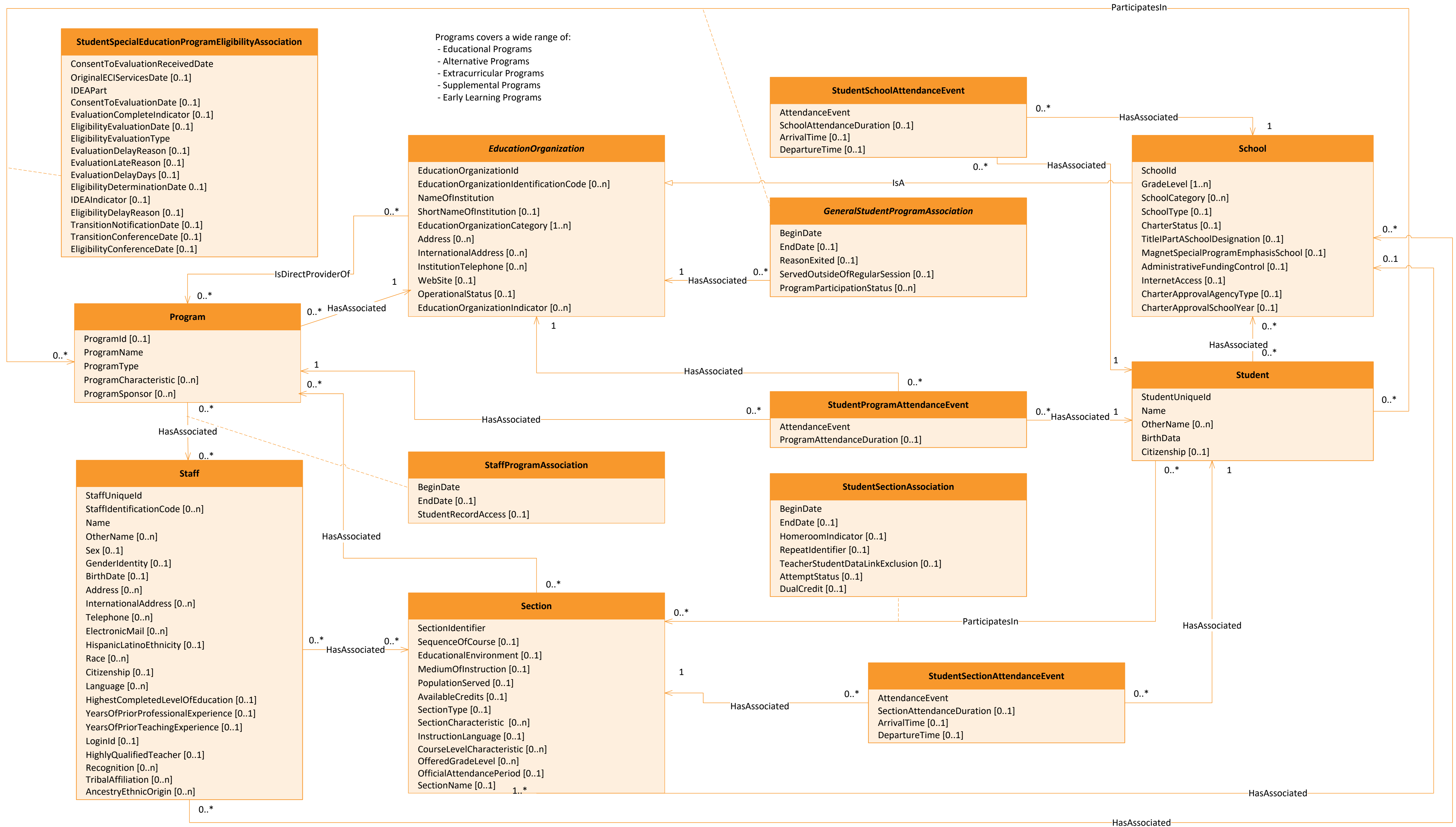
The Ed-Fi Unifying Data Model (UDM) is a conceptual model, and a common framework for the representation of data in the education domain. The UDM serves as the enterprise data model which is the basis for all Ed-Fi Data Exchange Standards.

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://docs.ed-fi.org/reference/data-exchange/data-standard/model-reference>







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..*

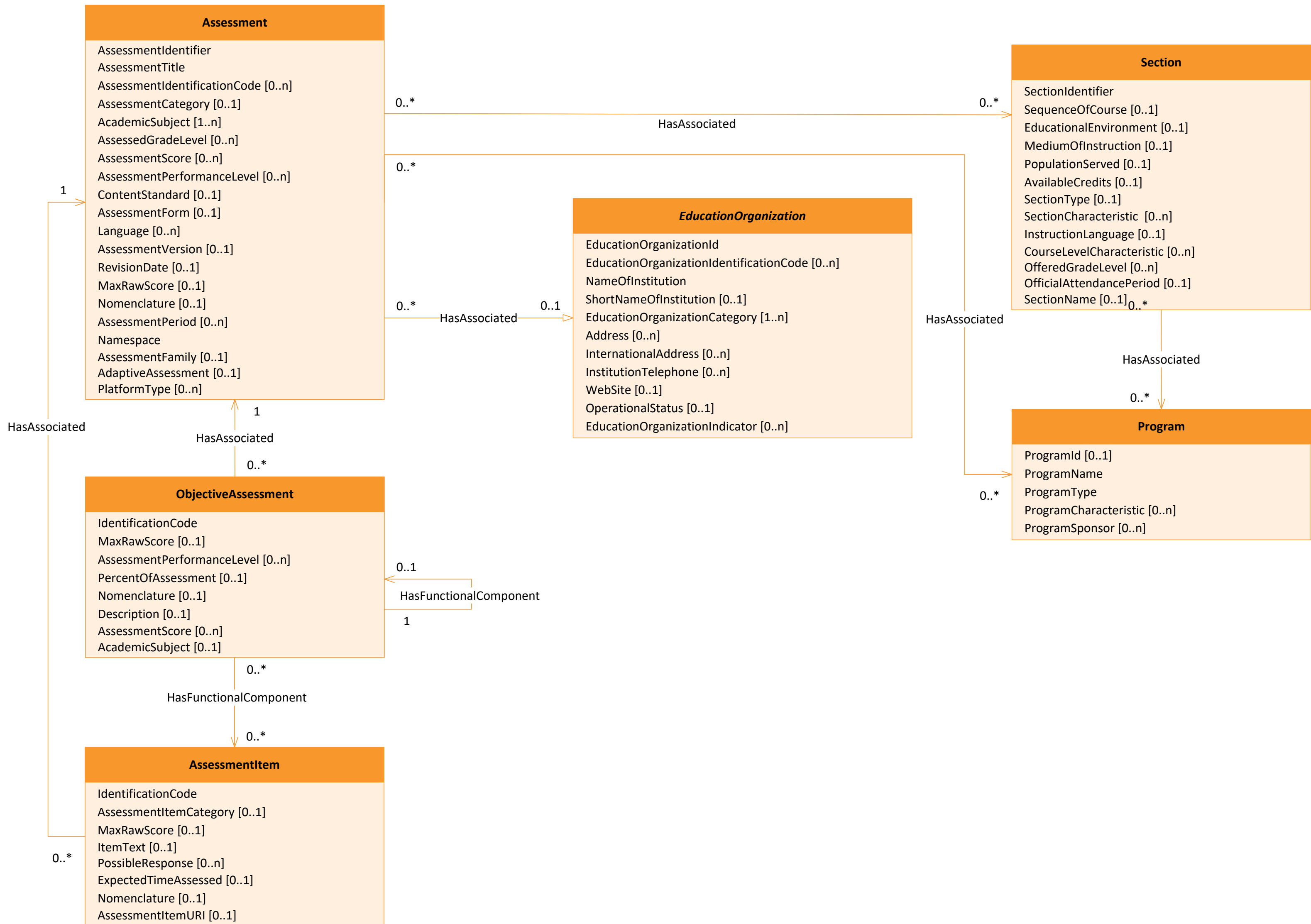
LearningStandardEquivalenceAssociation

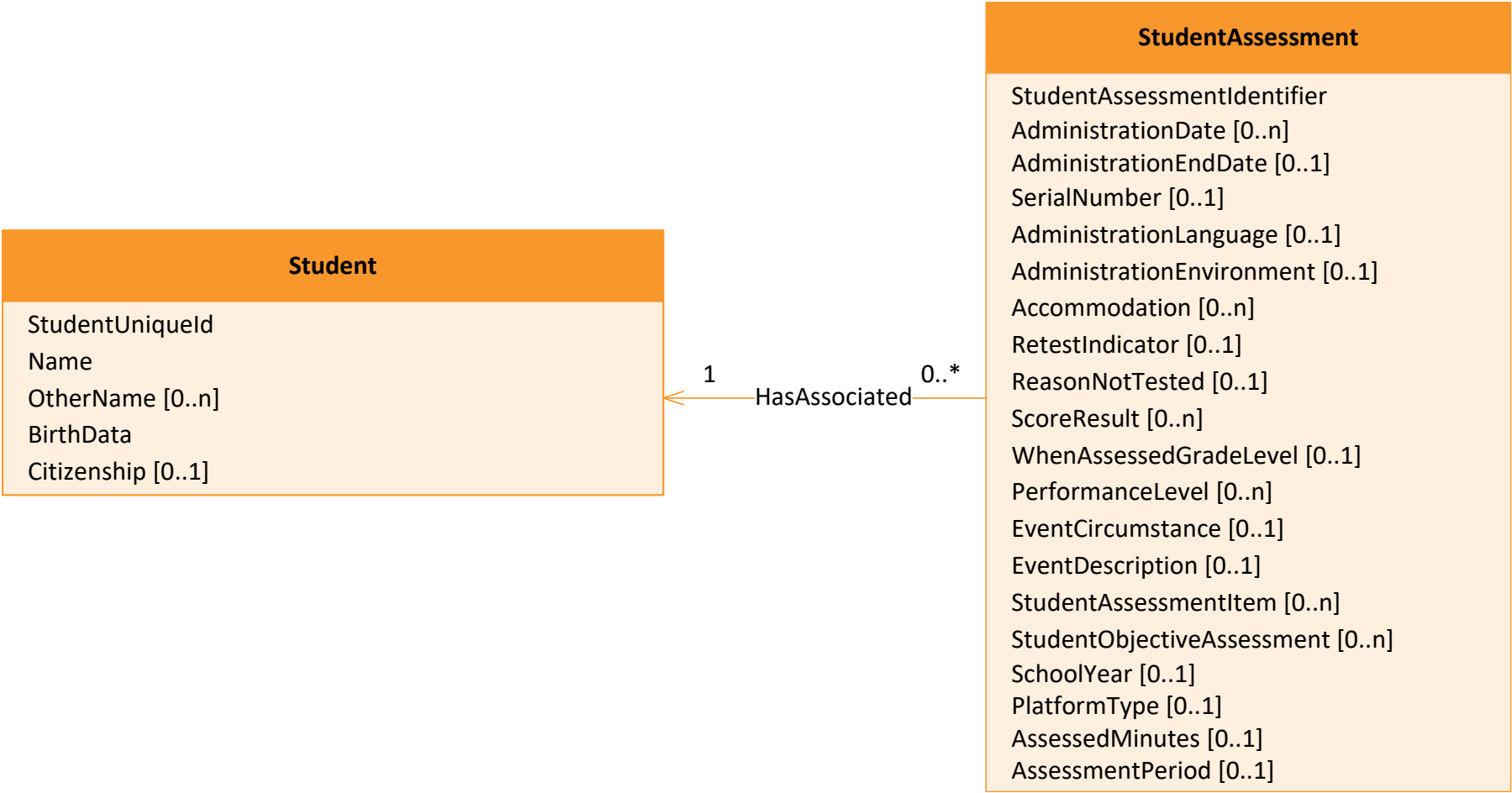
Namespace

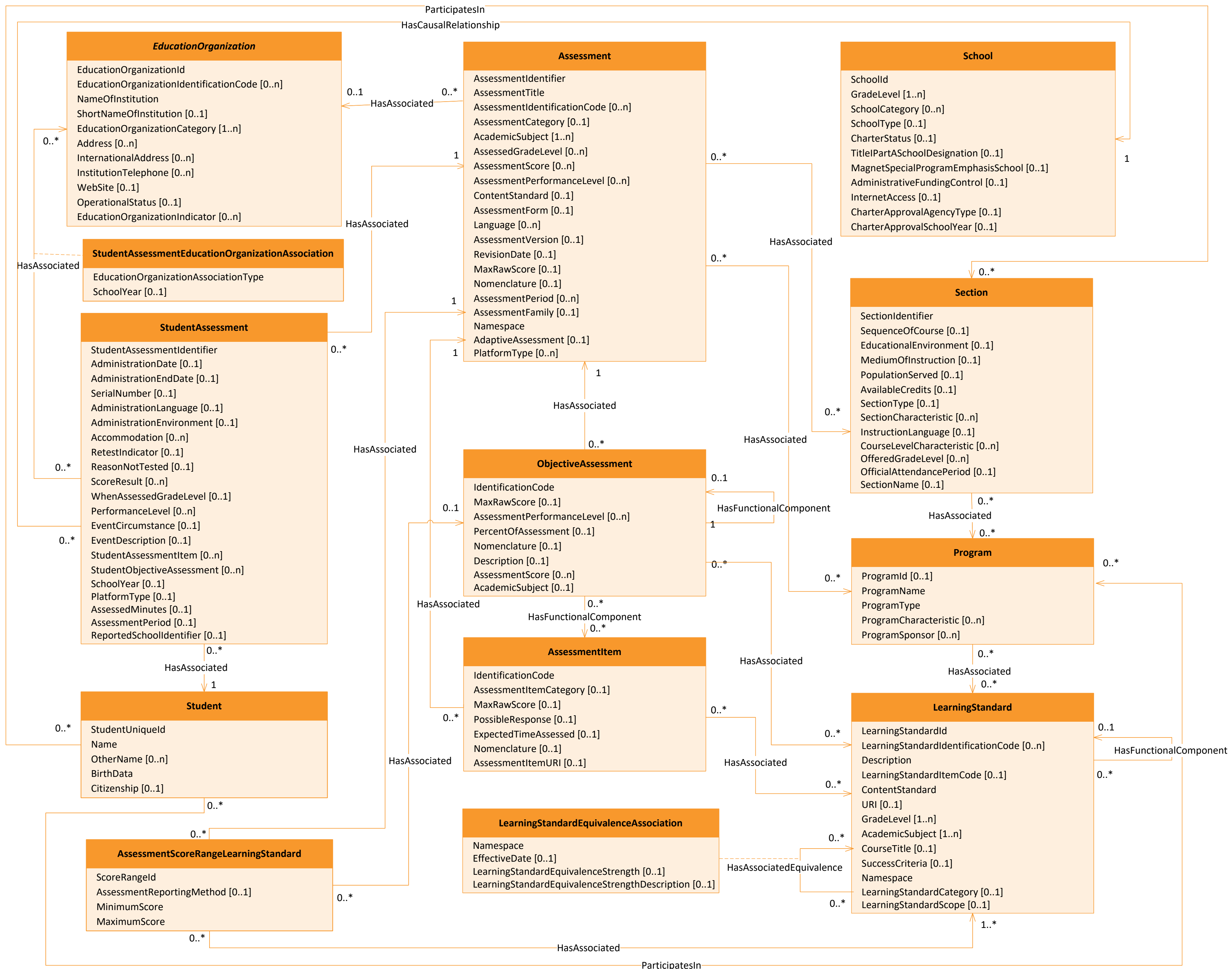
EffectiveDate [0..1]

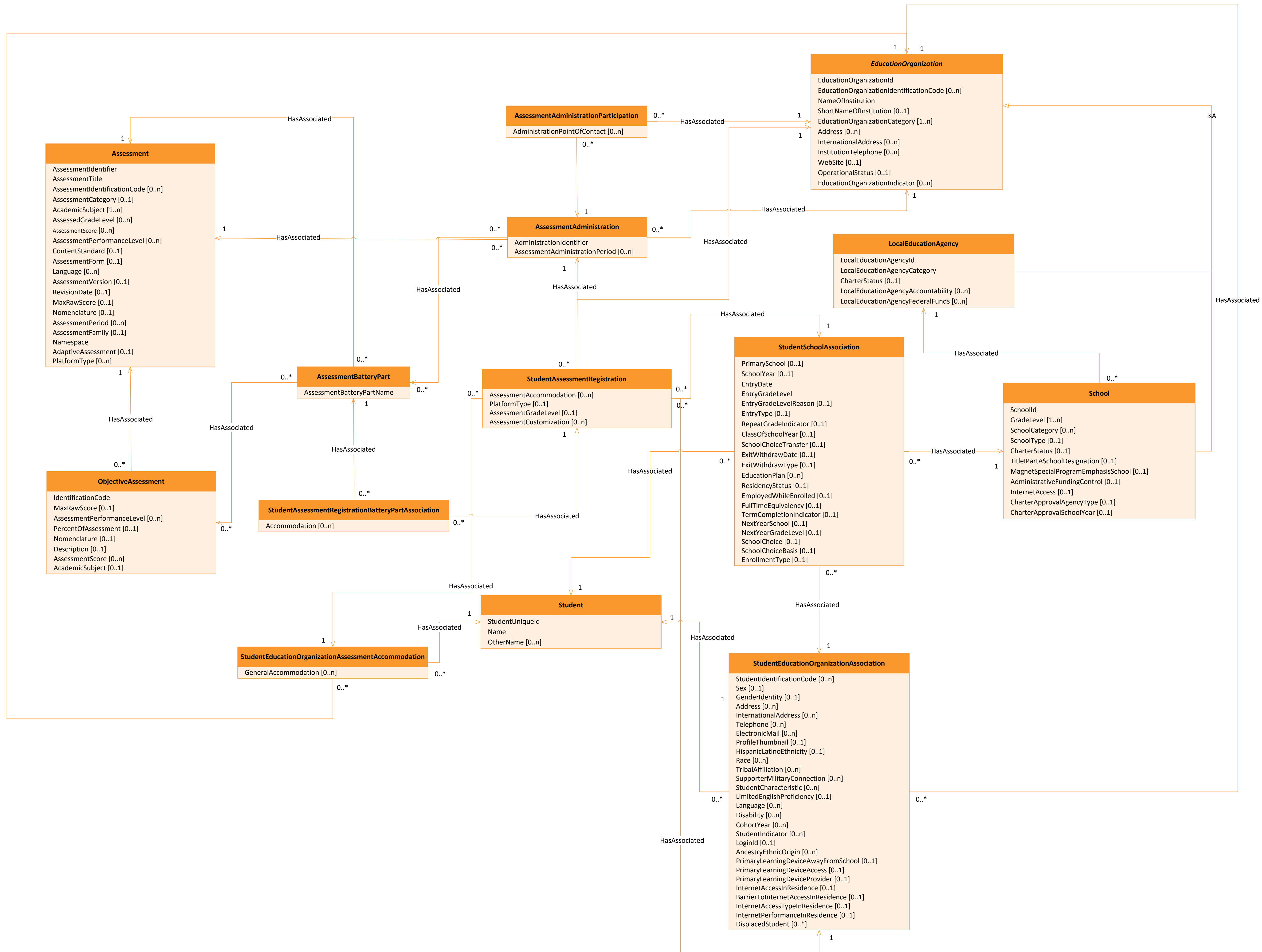
LearningStandardEquivalenceStrength [0..1]

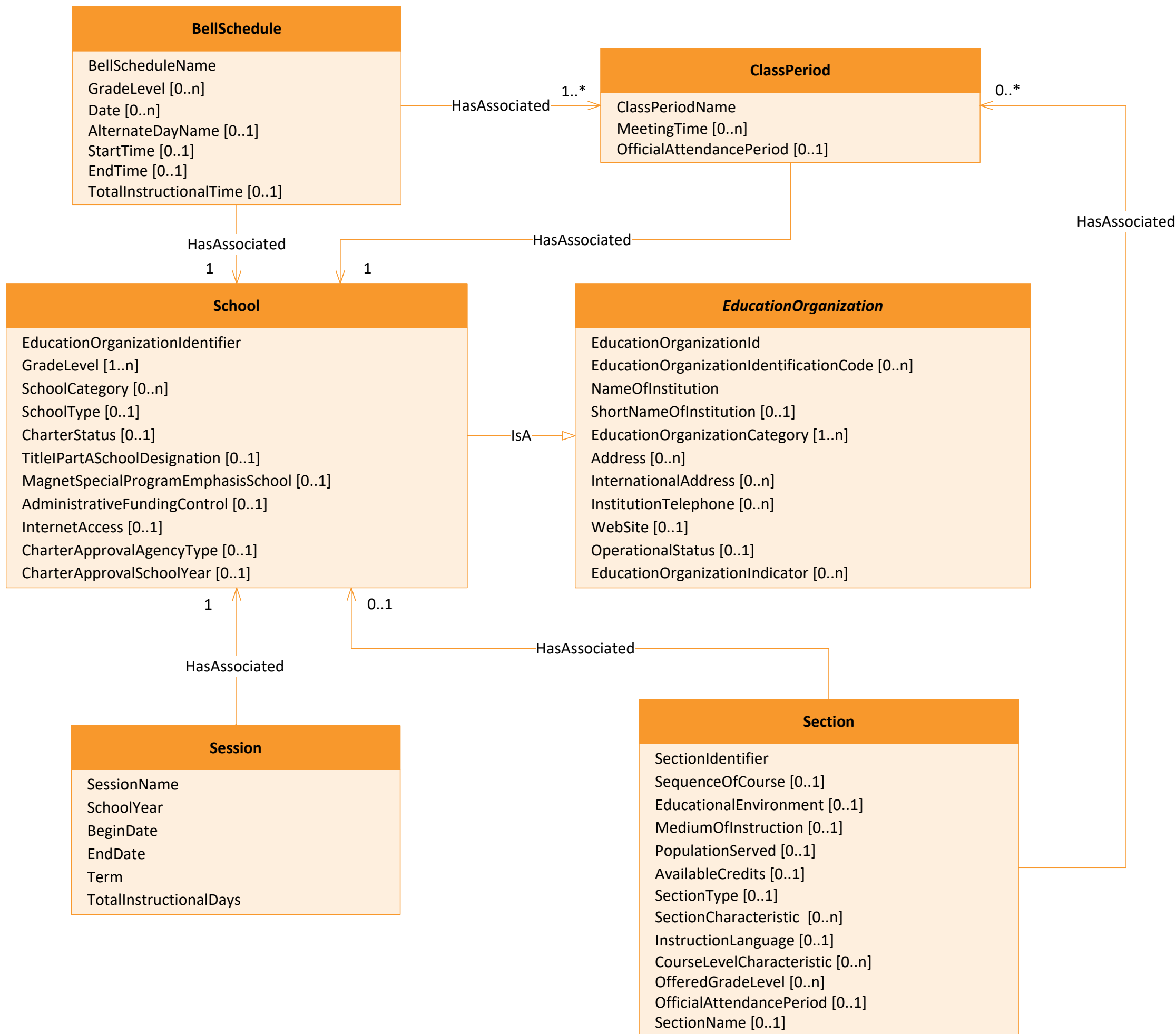
LearningStandardEquivalenceStrengthDescription [0..1]

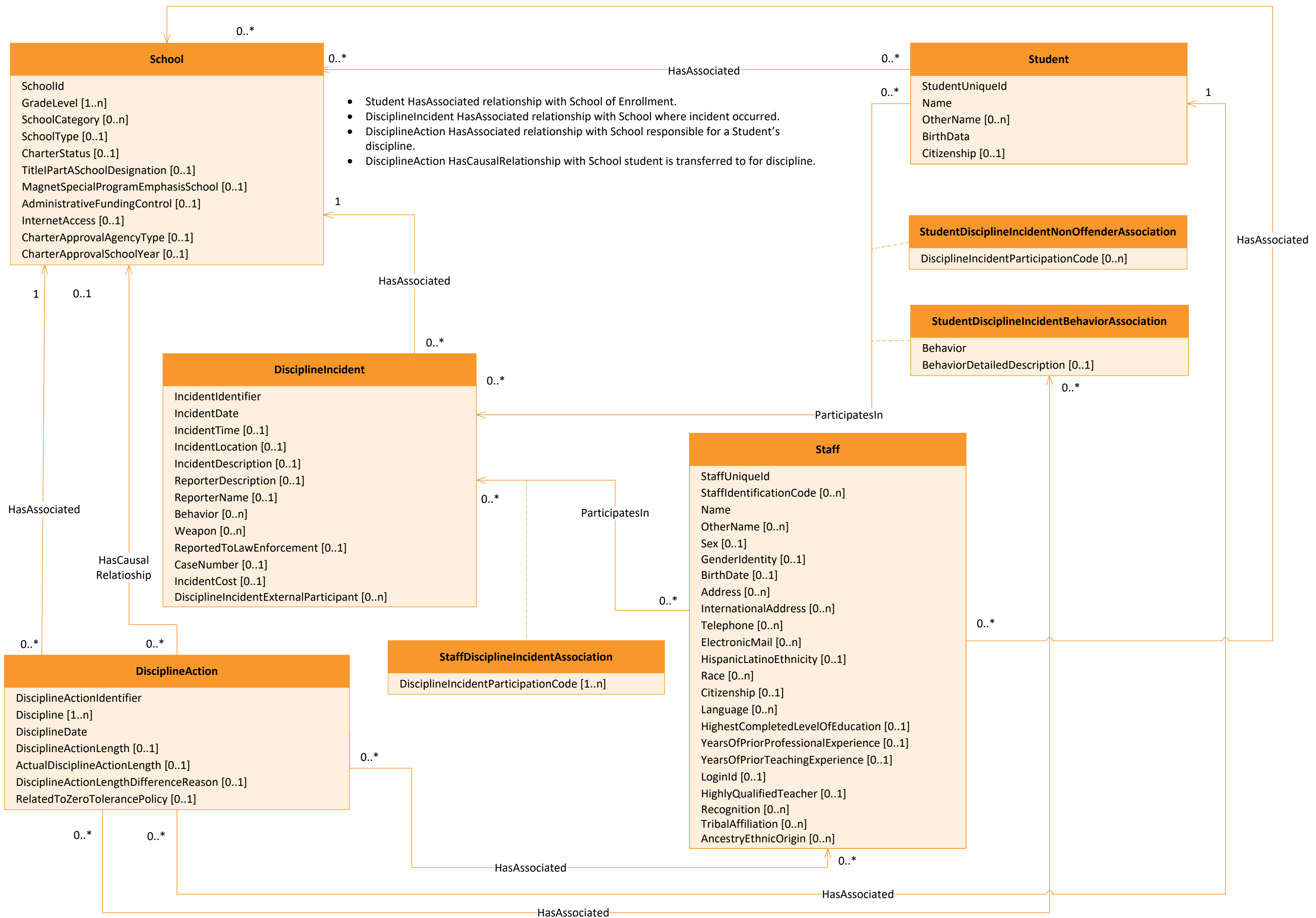


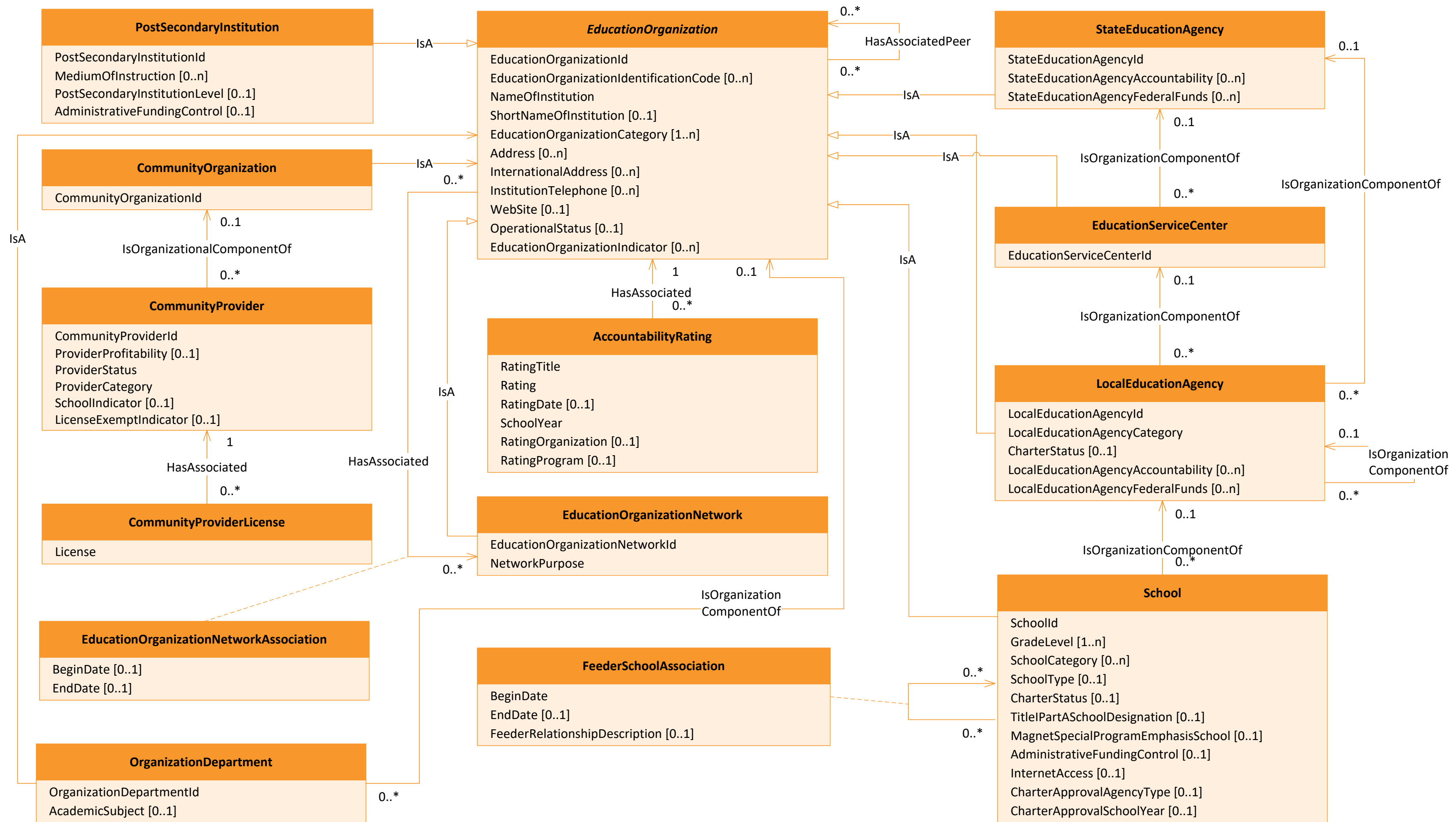


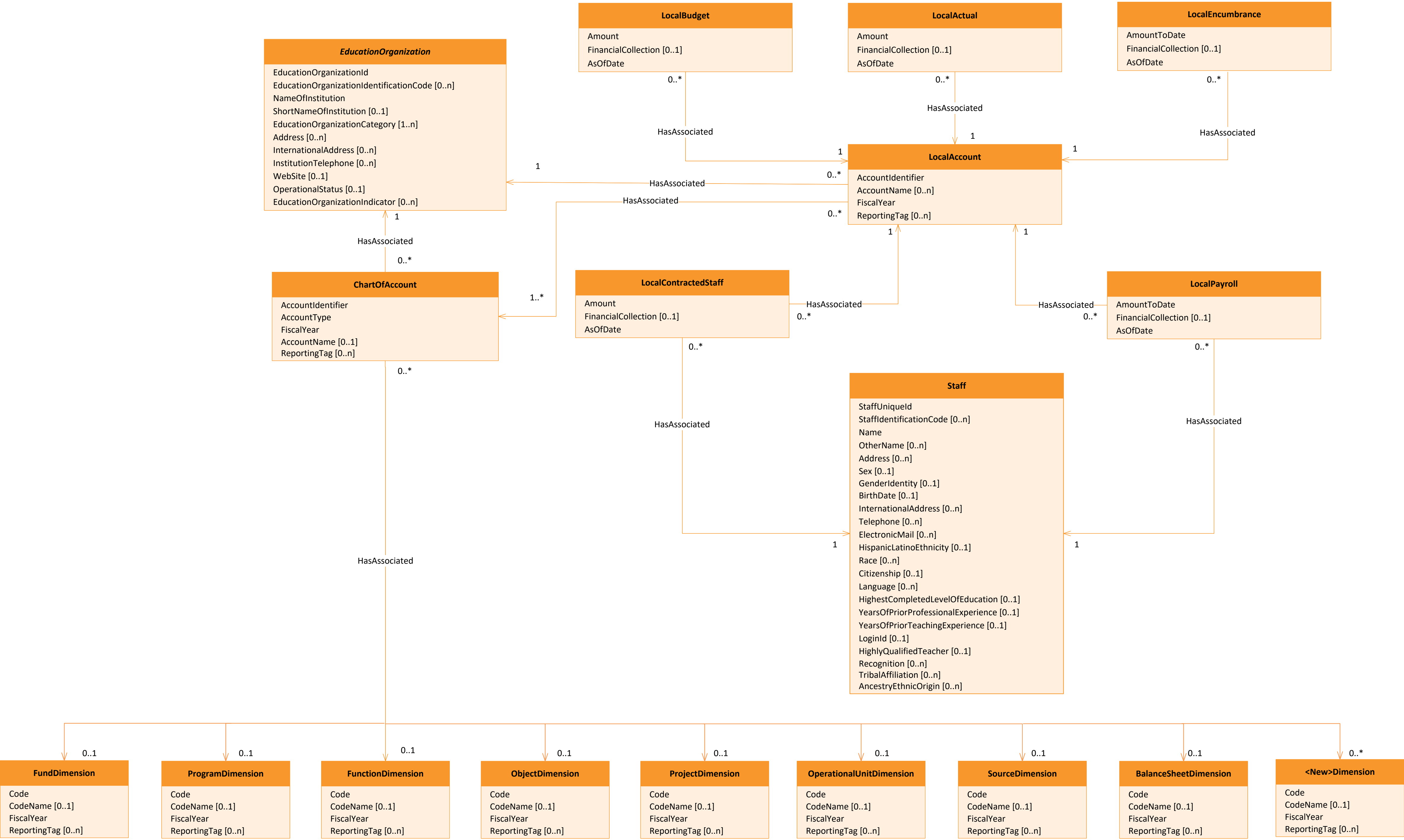


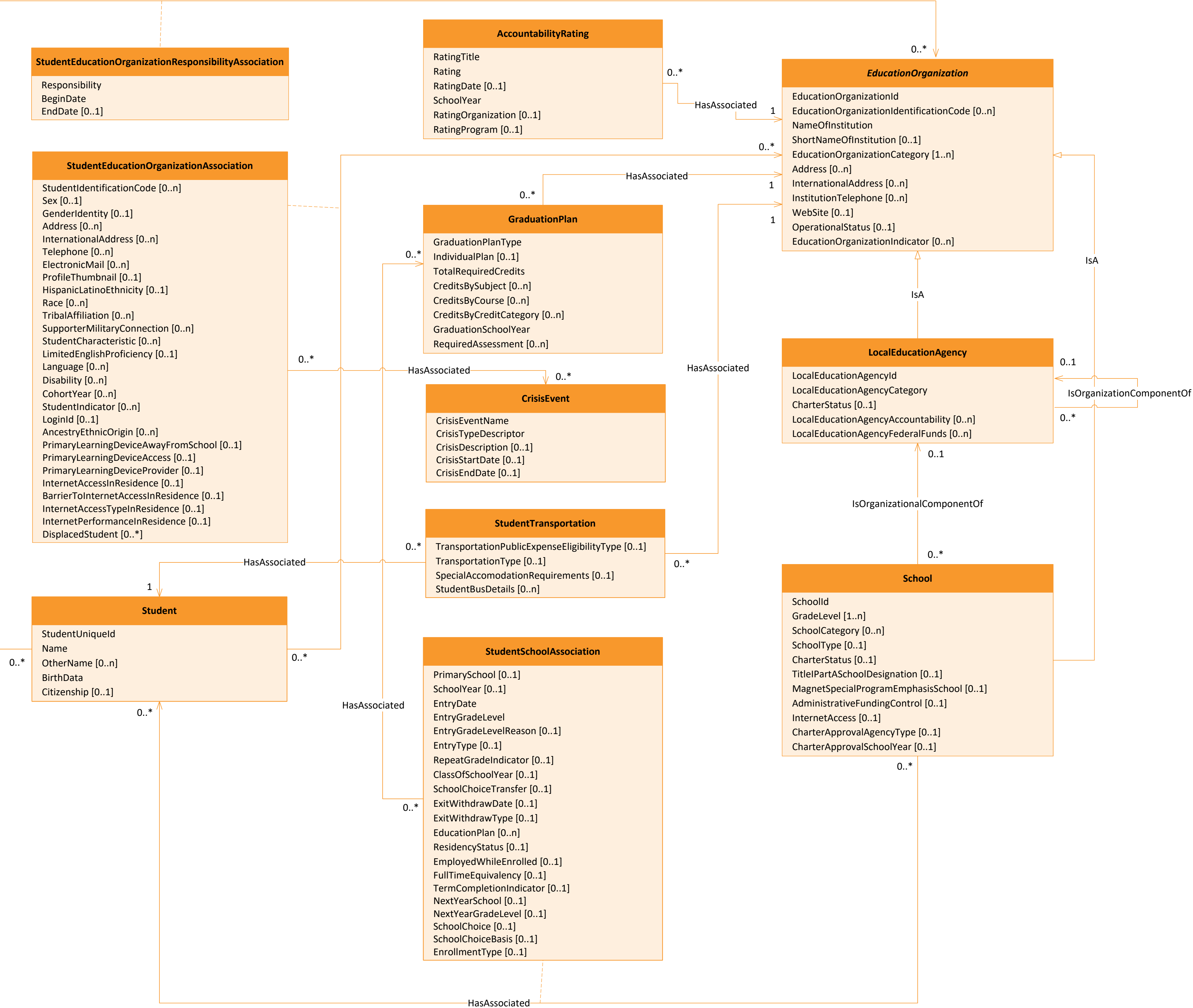


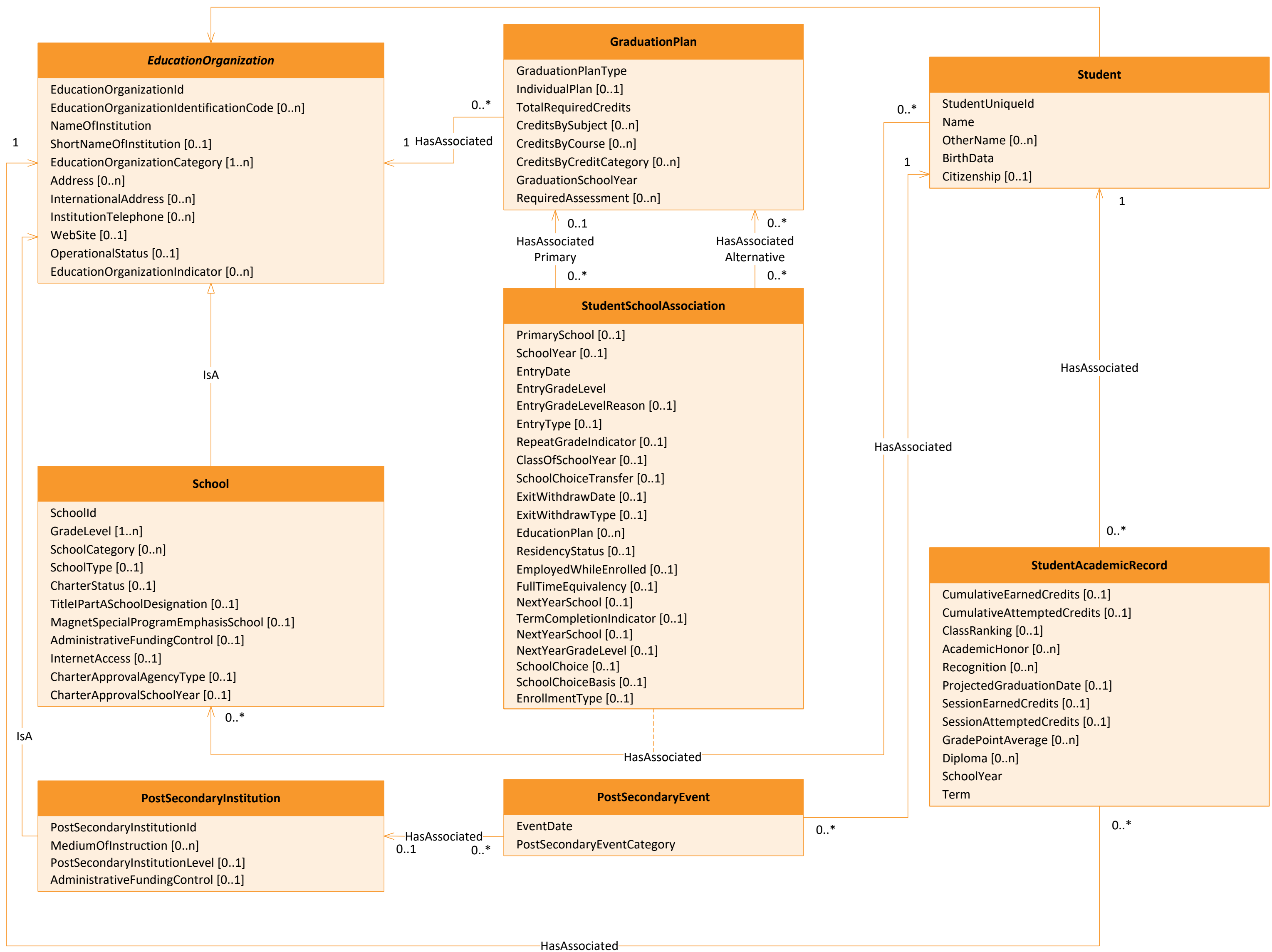


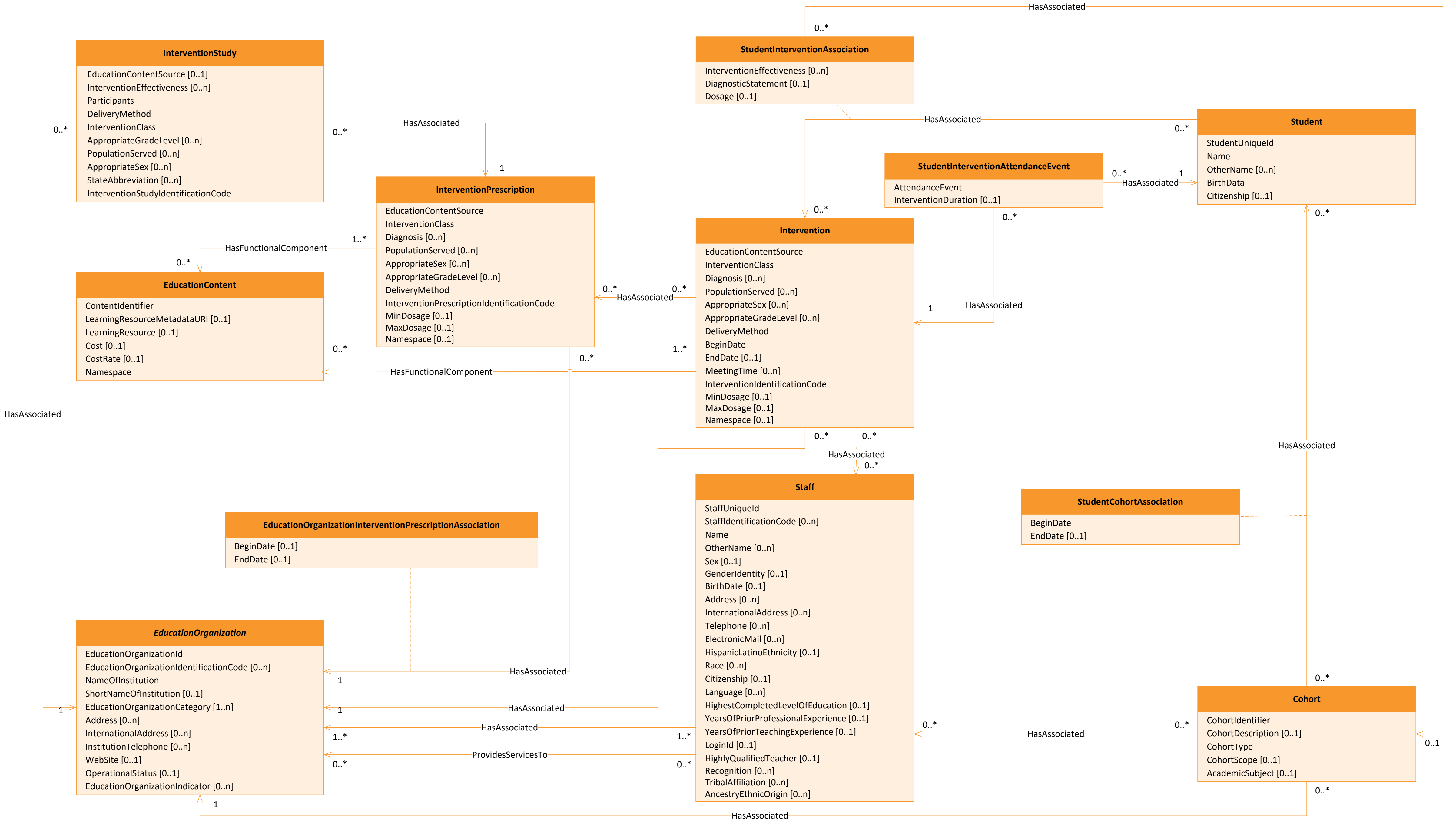


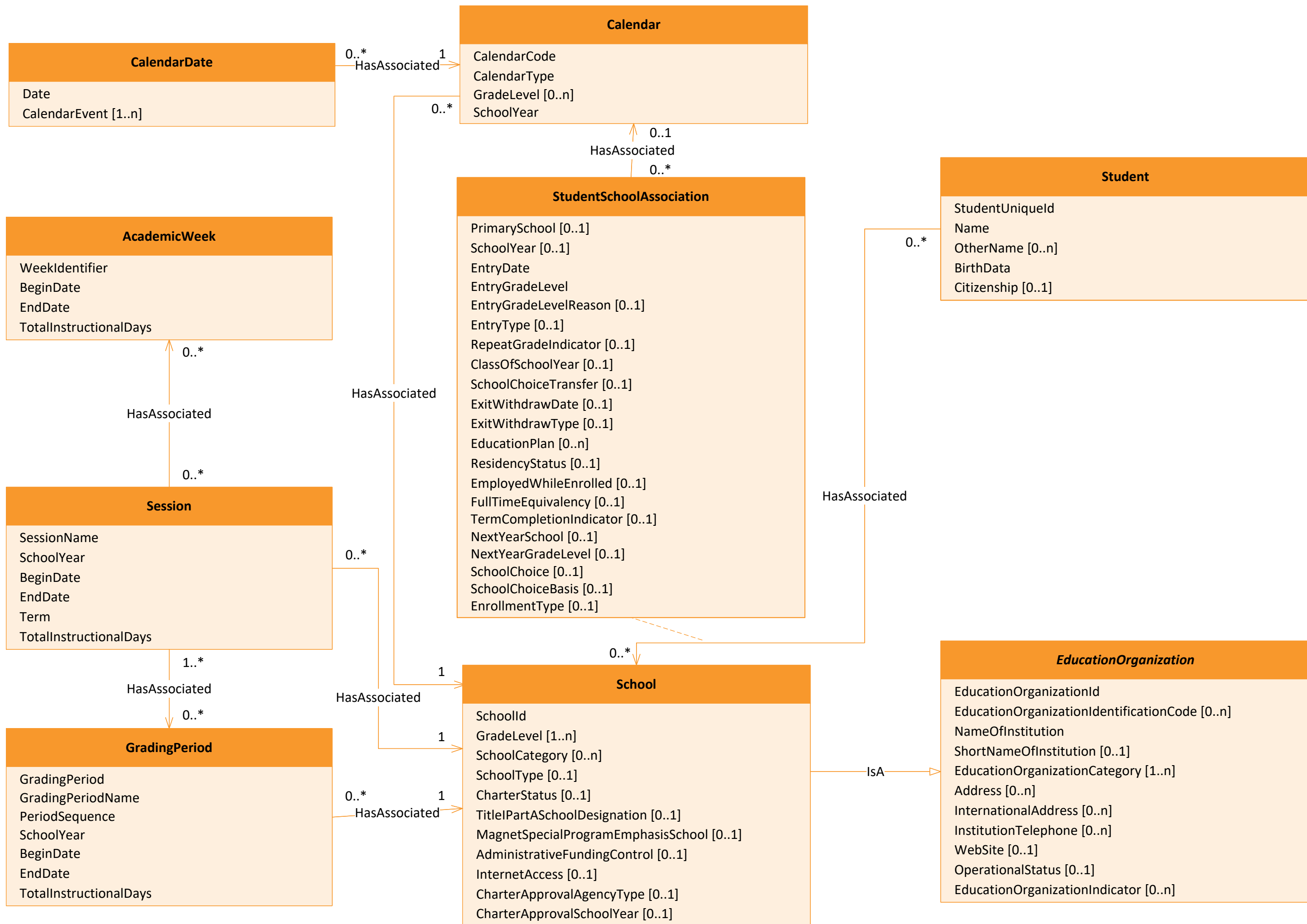












<i>EducationOrganization</i>
EducationOrganizationId
EducationOrganizationIdentificationCode [0..n]
NameOfInstitution
ShortNameOfInstitution [0..1]
EducationOrganizationCategory [1..n]
Address [0..n]
InternationalAddress [0..n]
InstitutionTelephone [0..n]
WebSite [0..1]
OperationalStatus [0..1]
EducationOrganizationIndicator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

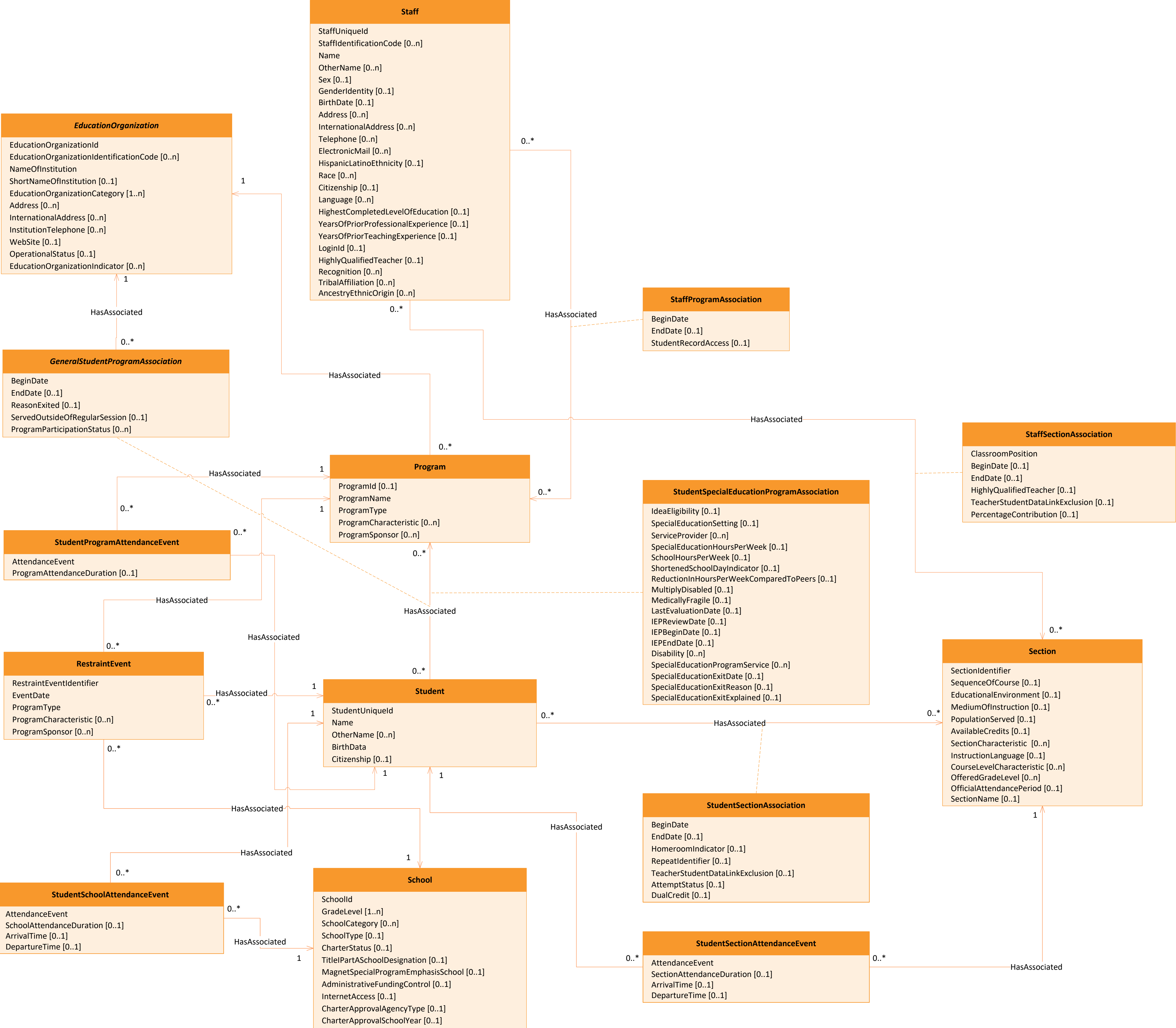
School
SchoolId
GradeLevel [1..n]
SchoolCategory [0..n]
SchoolType [0..1]
CharterStatus [0..1]
TitleIPartASchoolDesignation [0..1]
MagnetSpecialProgramEmphasisSchool [0..1]
AdministrativeFundingControl [0..1]
InternetAccess [0..1]
CharterApprovalAgencyType [0..1]
CharterApprovalSchoolYear [0..1]

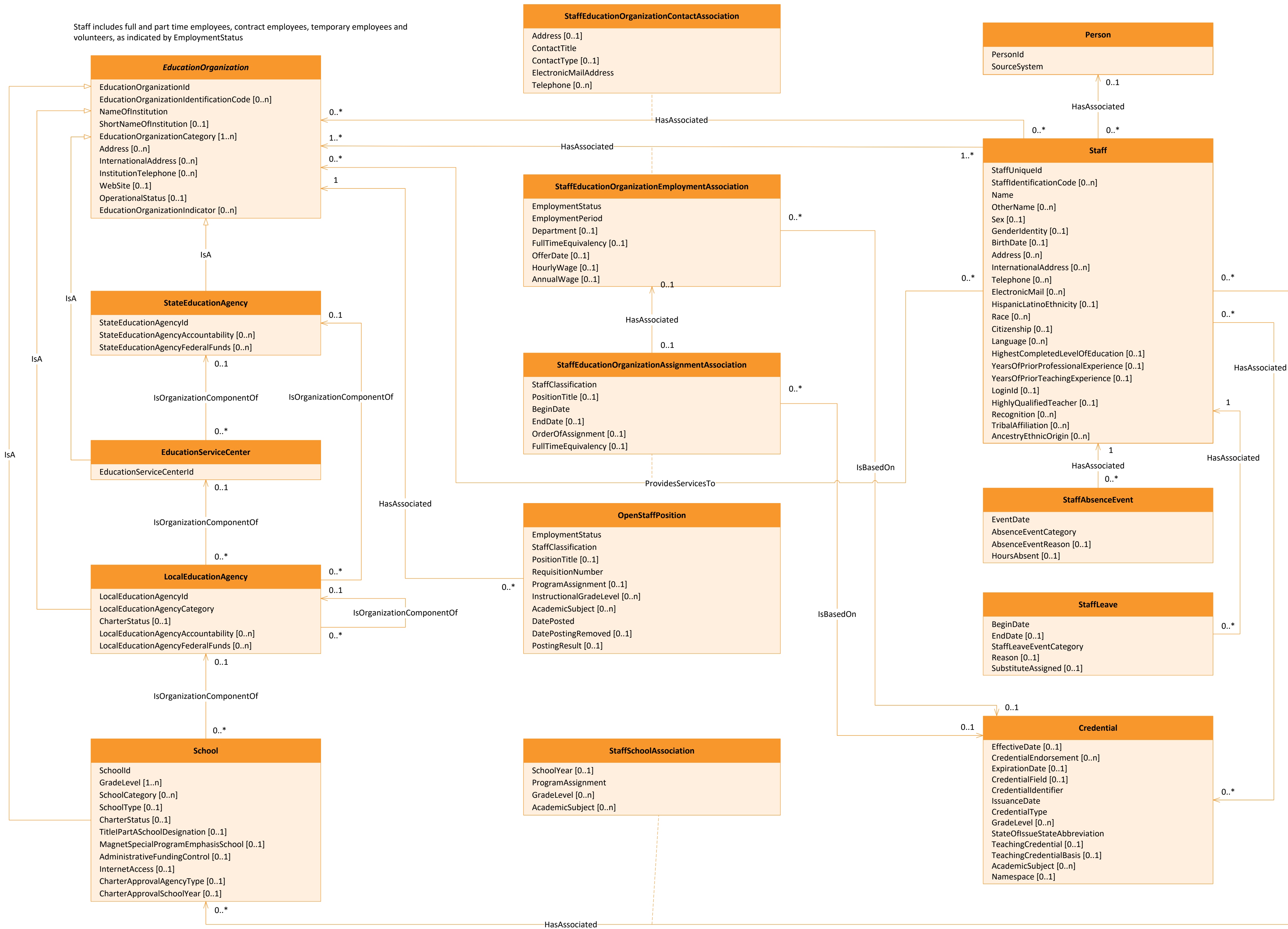
GeneralStudentProgramAssociation
BeginDate
EndDate [0..1]
ReasonExited [0..1]
ServedOutsideOfRegularSession [0..1]
ProgramParticipationStatus [0..n]

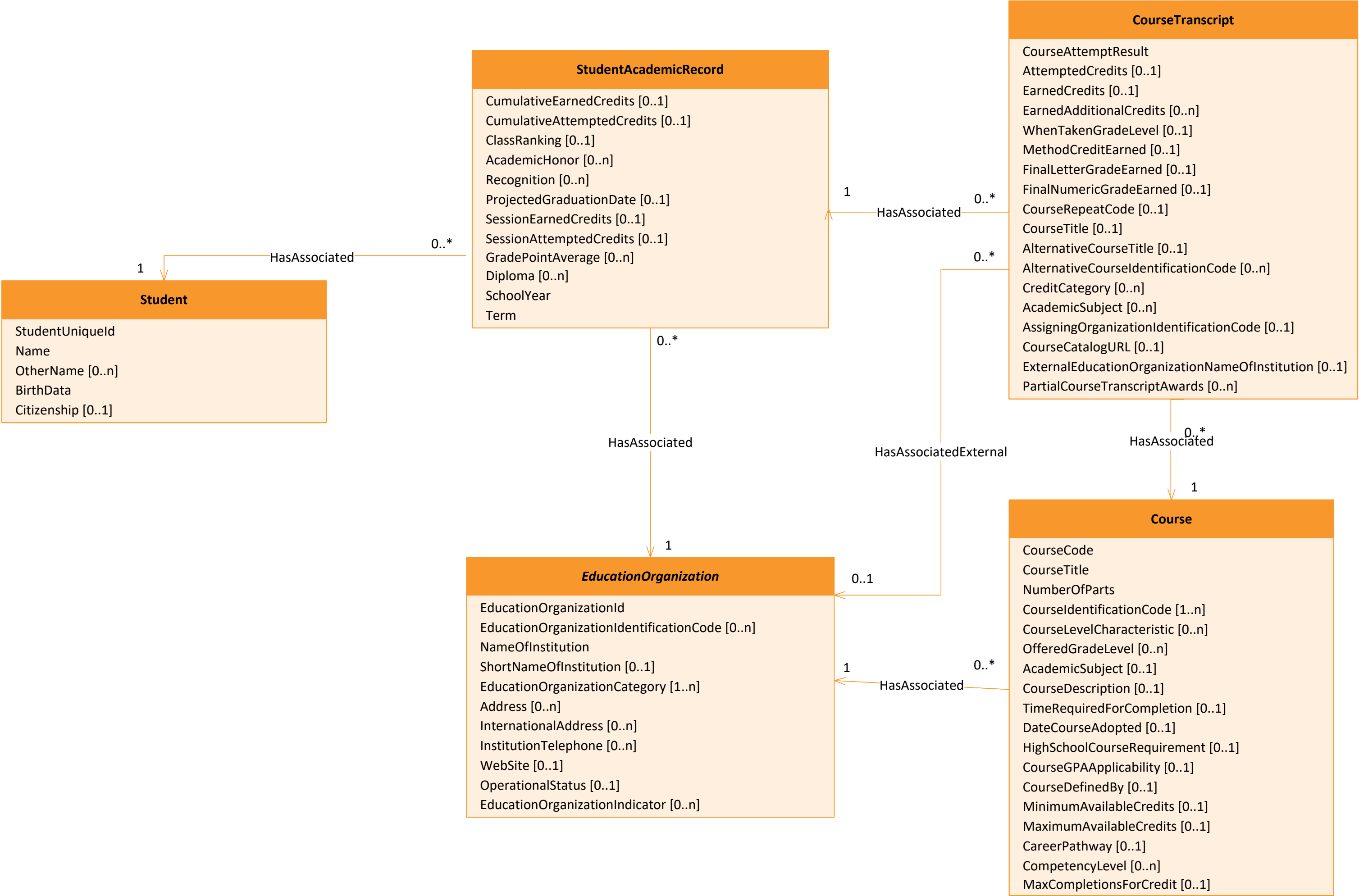
StudentProgramAttendanceEvent
AttendanceEvent
ProgramAttendanceDuration [0..1]

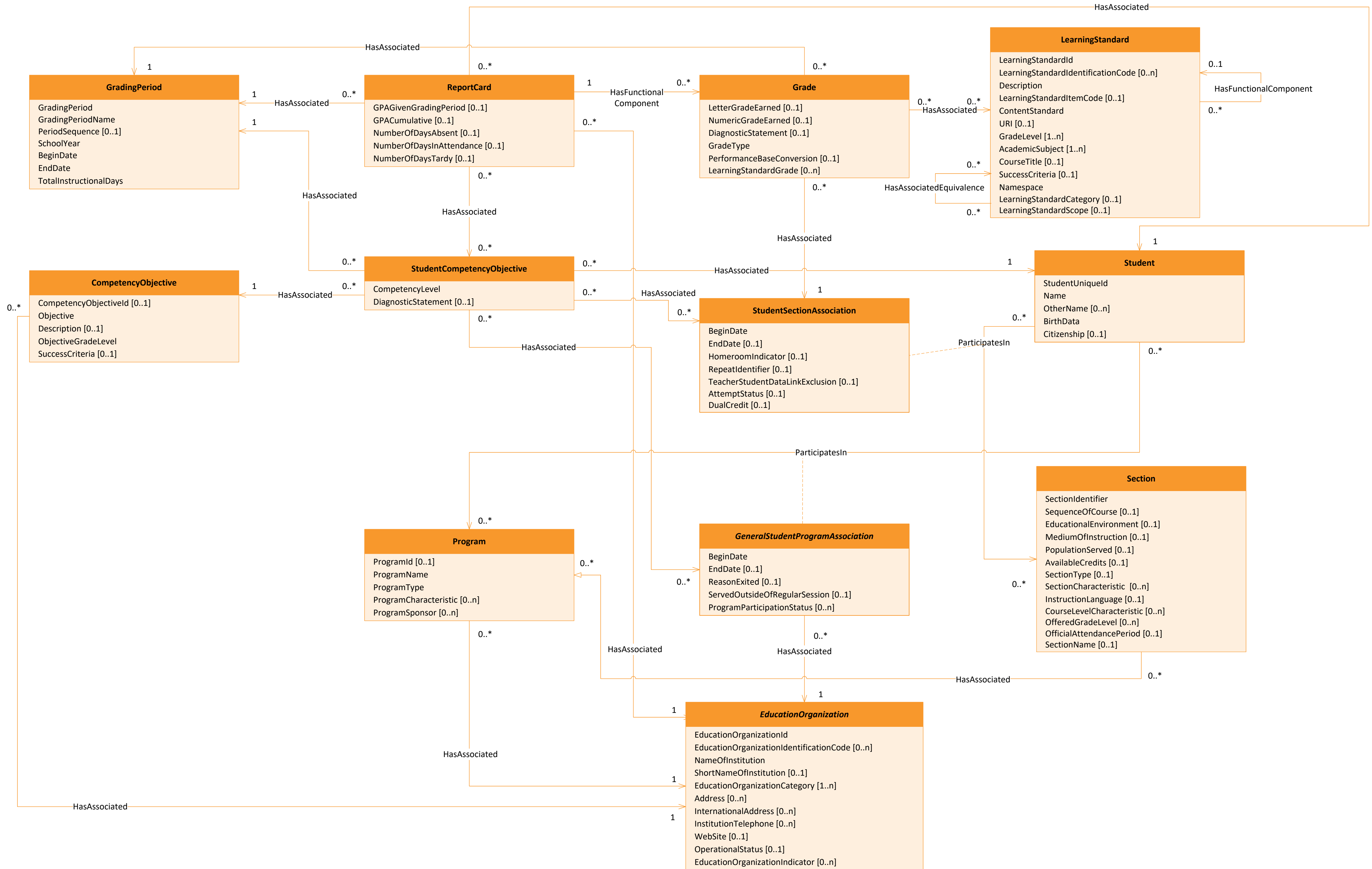
RestraintEvent
RestraintEventIdentifier
EventDate
ProgramType
ProgramCharacteristic [0..n]
ProgramSponsor [0..n]

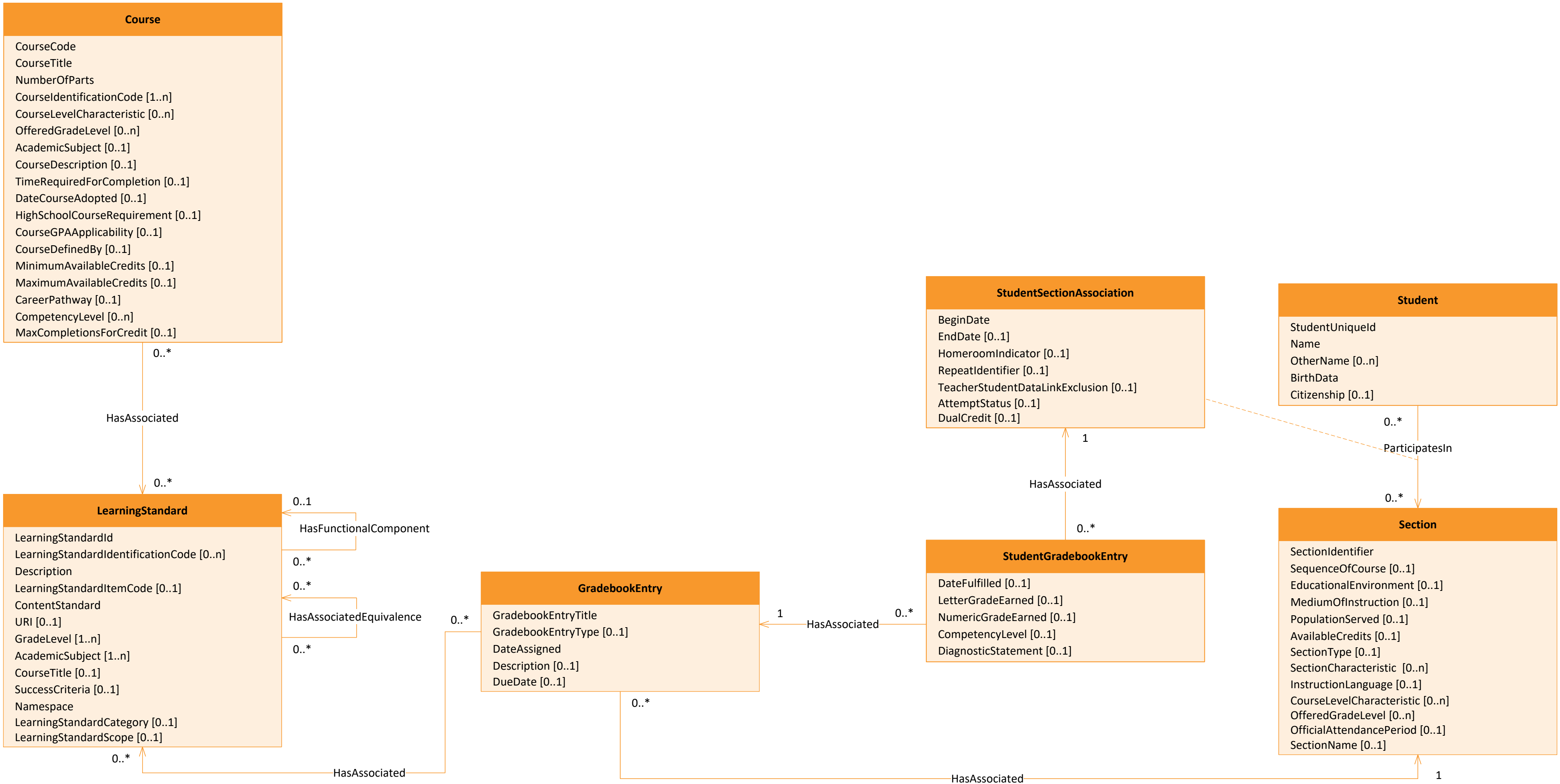
StudentSchoolAttendanceEvent
AttendanceEvent
SchoolAttendanceDuration [0..1]
ArrivalTime [0..1]
DepartureTime [0..1]

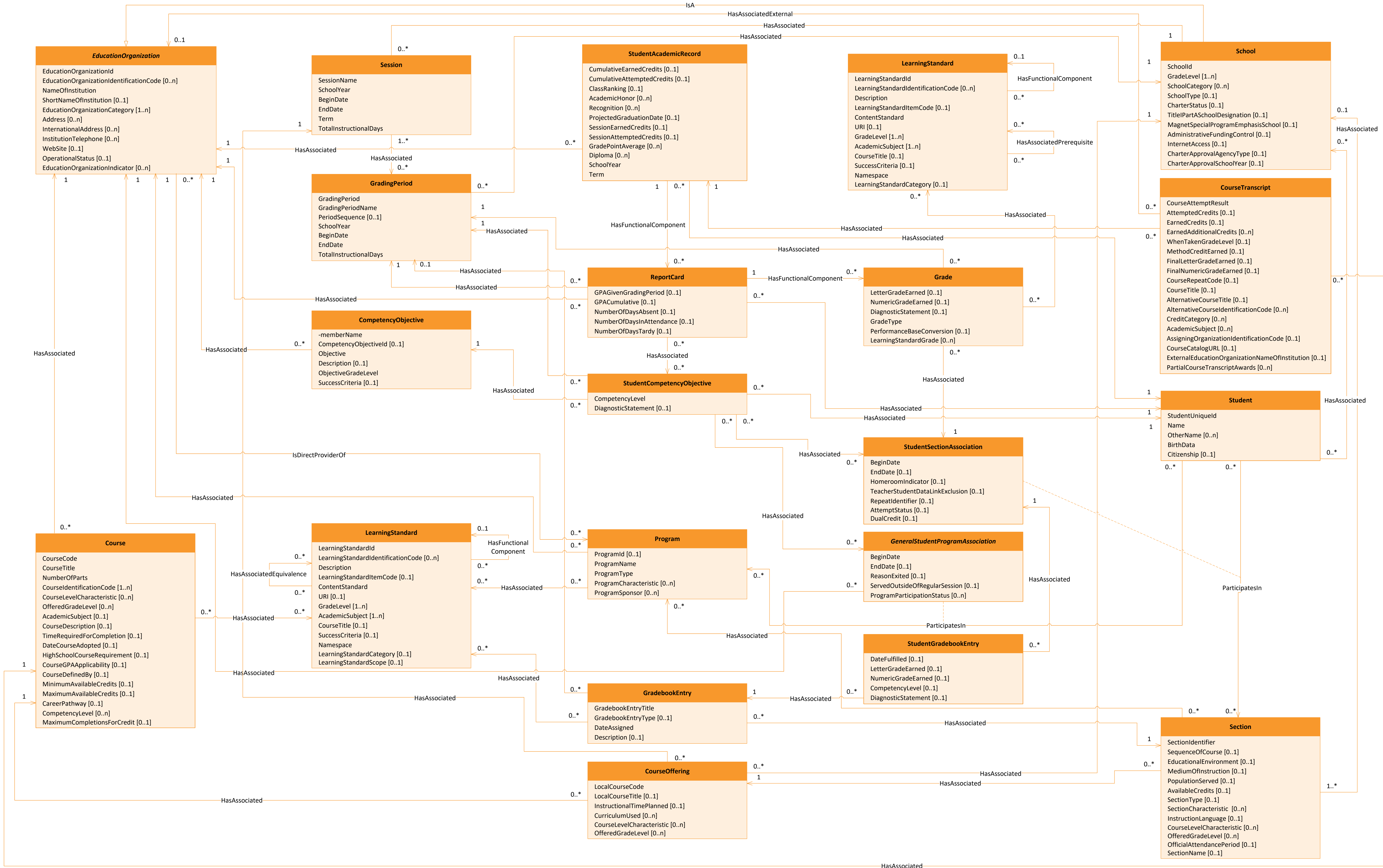


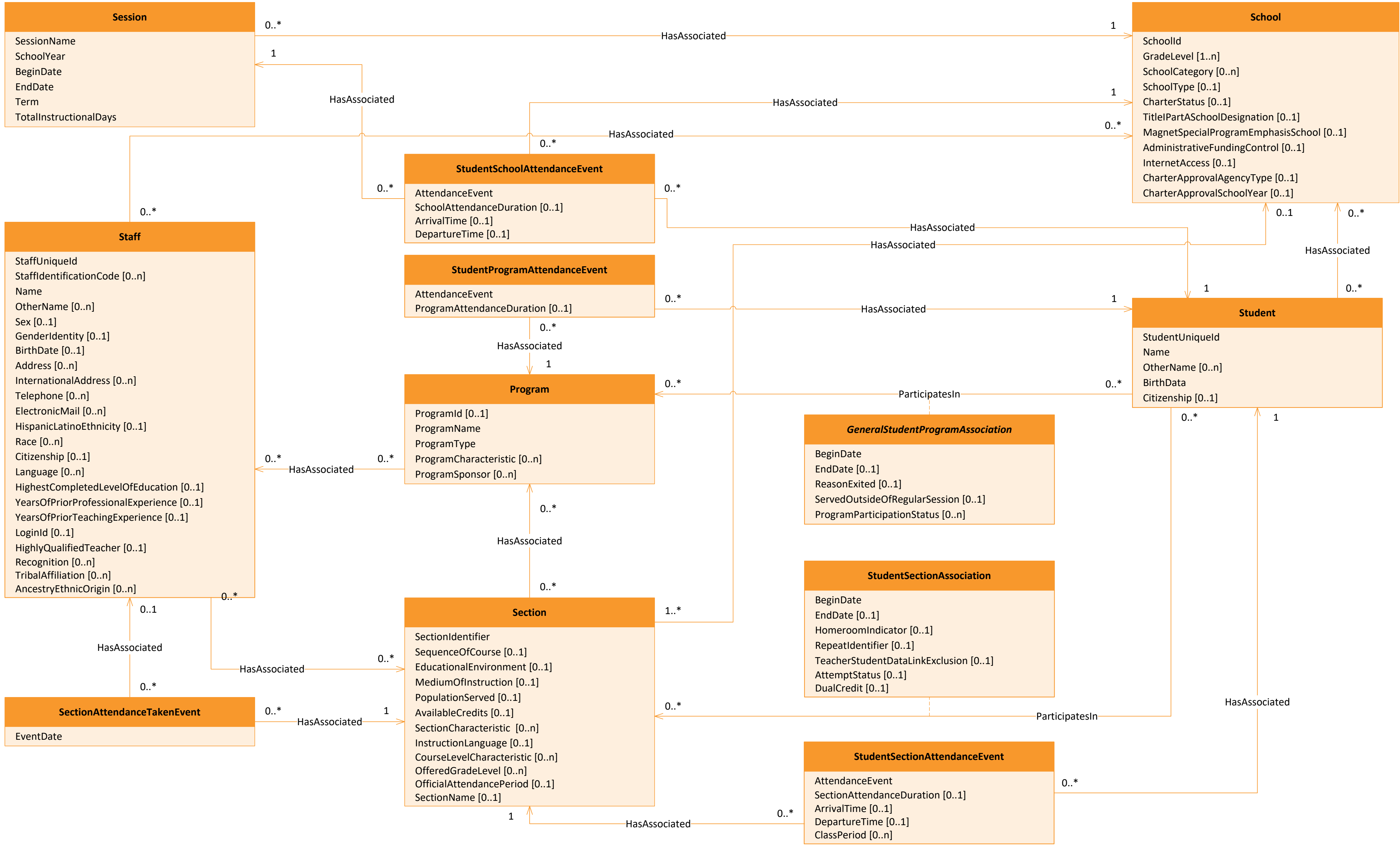






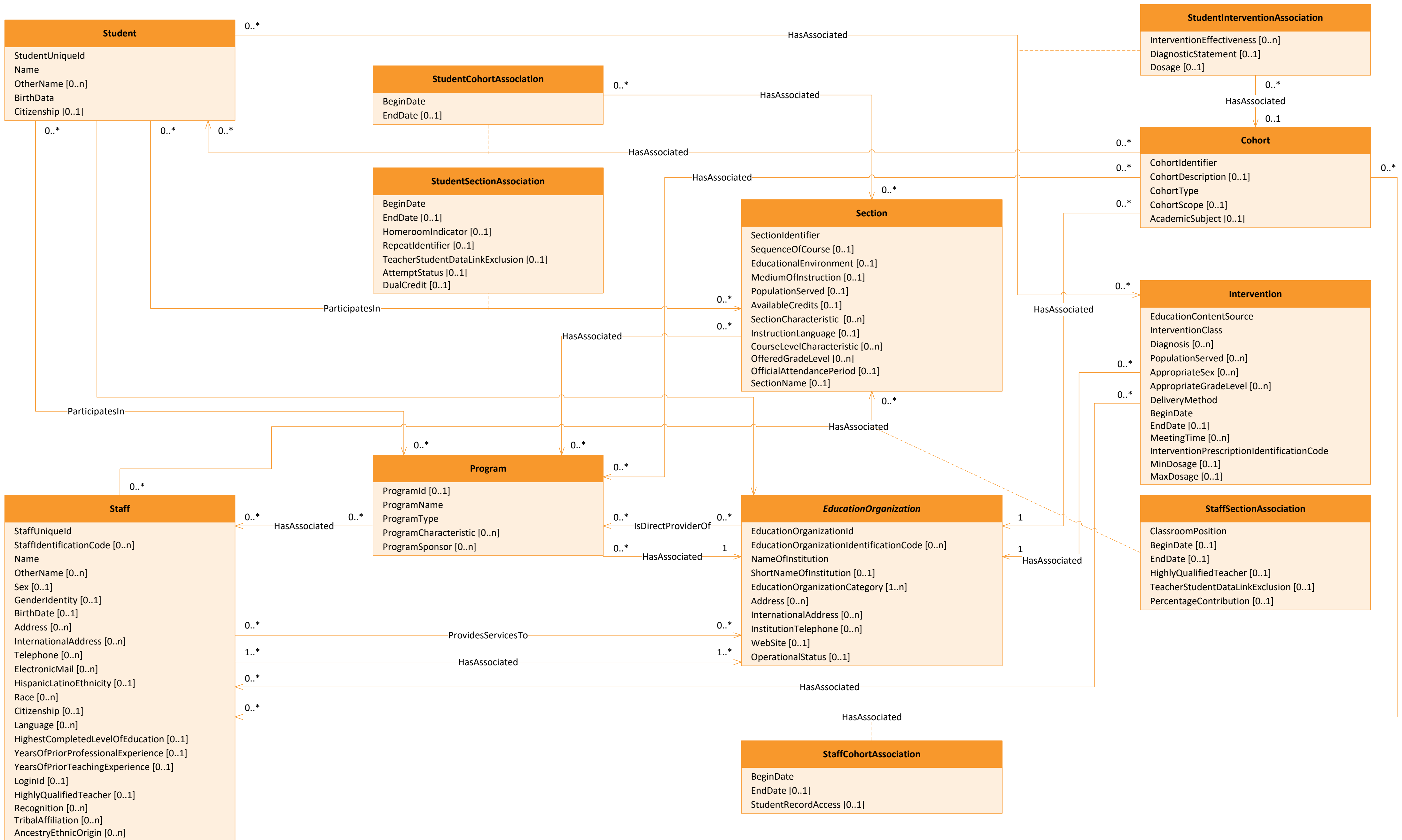






The model supports two styles of storing attendance:

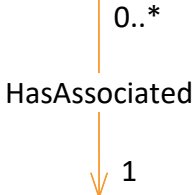
1. One attendance event for each student-section, with instances for attendance, absences, and tardies.
2. "Exception only" attendance events, not including instances for sections attended, but only those absent or tardy. The period attribute TotalInstructionalDays is used to compute the number of days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



<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]



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



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

