

Microsoft Higher Education Accelerator

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Overview

The Microsoft Higher Education Accelerator extends the Common Data Model (CDM) to include new entities to support a data schema for institutions, students, faculty, courses, test scores, etc. With the CDM, higher education institutions have a unified view of their data across sources that enables business apps to deliver new insights and drive intelligence-based experiences to students and faculty within the institution.

This documentation provides an overview of some of the key entities and attributes included in the Microsoft Higher Education Accelerator.

Entities and Attributes

The Microsoft Higher Education Accelerator model contains a number of attribute extensions to existing Common Data Model entities as well as new entities. The prefix “mshied” is consistent throughout all these extensions.

Additional metadata on the entities and the attributes can be found by installing the Microsoft Higher Education Accelerator and using the Dynamics metadata browser.

Learn more about the Common Data Model at <https://github.com/Microsoft/CDM>

Account

Business that represents a customer or potential customer. The company that is billed in business transactions.

Logical Name	Type	Description
address1_composite	Memo	Shows the complete primary address.
fax	String	Type the fax number for the account.
mshied_accounttype	Picklist	Type of Account
mshied_externalidentifier	String	
mshied_externalsourcesystem	Picklist	External Source System
mshied_numberofcontacts	Integer	Rollup count of number of associated Contacts where this is their Associated Campus.
name	String	Type the company or business name.
ownerid	Owner	Enter the user or team who is assigned to manage the record. This field is updated every time the record is assigned to a different user.
telephone1	String	Type the main phone number for this account.
websiteurl	String	Type the account's website URL to get quick details about the company profile.

Contact

Person with whom an account has a relationship, such as a customer, supplier and colleague

Logical Name	Type	Description
address1_composite	Memo	Shows the complete primary address.
anniversary	DateTime	Enter the date of the contact's wedding or service anniversary for use in customer gift programs or other communications.
birthdate	DateTime	Enter the contact's birthday for use in customer gift programs or other communications.
description	Memo	Type additional information to describe the contact, such as an excerpt from the company's website.
donotbulkemail	Boolean	Select whether the contact accepts bulk email sent through marketing campaigns or quick campaigns. If Do Not Allow is selected, the contact can be added to marketing lists, but will be excluded from the email.
donotemail	Boolean	Select whether the contact allows direct email sent from Microsoft Dynamics 365. If Do Not Allow is selected, Microsoft Dynamics 365 will not send the email.
donotfax	Boolean	Select whether the contact allows faxes. If Do Not Allow is selected, the contact will be excluded from

Logical Name	Type	Description
		any fax activities distributed in marketing campaigns.
donotphone	Boolean	Select whether the contact accepts phone calls. If Do Not Allow is selected, the contact will be excluded from any phone call activities distributed in marketing campaigns.
donotpostalmail	Boolean	Select whether the contact allows direct mail. If Do Not Allow is selected, the contact will be excluded from letter activities distributed in marketing campaigns.
emailaddress1	String	Type the primary email address for the contact.
familystatuscode	Picklist	Select the marital status of the contact for reference in follow-up phone calls and other communications.
followemail	Boolean	Information about whether to allow following email activity like opens, attachment views and link clicks for emails sent to the contact.
fullname	String	Combines and shows the contact's first and last names so that the full name can be displayed in views and reports.
gendercode	Picklist	Select the contact's gender to make sure the contact is addressed correctly in sales calls, email, and marketing campaigns.
jobtitle	String	Type the job title of the contact to make sure the contact is addressed correctly in sales calls, email, and marketing campaigns.
mobilephone	String	Type the mobile phone number for the contact.
mshied_contacttype	Virtual	Type of contact
mshied_countryofbirth	Picklist	Country of birth for the contact.
mshied_currentacademicperiodid	Lookup	Current academic period enrolled, if any, for the contact.
mshied_currentprogramid	Lookup	Current program for the contact.
mshied_currentprogramlevelid	Lookup	Current program level associated to the program for the contact.
mshied_ethnicgroup	Picklist	Ethnic group for the contact.
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_ferpaprivacy	Boolean	Indicates if the Contact has elected to withhold directory information pursuant to FERPA (USA Federal Education Rights and Privacy Act).
mshied_firstgeneration	Boolean	Indicates if contact is a first generation student.
mshied_hipaaindicator	Boolean	Indicates if the Contact record includes information such as disability services requests that are protected by HIPAA (USA Health Insurance Portability and Accountability Act standards).

Logical Name	Type	Description
mshied_lastpermanentresidencecountry	Picklist	Last country of permanent residence for the contact.
mshied_legacy	Boolean	Identifies a Contact that is part of a legacy of contacts
mshied_maidenname	String	Maiden Name
mshied_manualriskscore	String	Manual Risk Score
mshied_militarystatus	Picklist	Indicates the military service record for the contact.
mshied_nationalidentifier	String	Unique Identifier or Student SSN
mshied_nationality	Picklist	Country of nationality for the contact.
mshied_race	Picklist	Race of the contact
mshied_studentstatusid	Lookup	
ownerid	Owner	Enter the user or team who is assigned to manage the record. This field is updated every time the record is assigned to a different user.
parentcustomerid	Customer	Select the parent account or parent contact for the contact to provide a quick link to additional details, such as financial information, activities, and opportunities.
preferredcontactmethodcode	Picklist	Select the preferred method of contact.
spousesname	String	Type the name of the contact's spouse or partner for reference during calls, events, or other communications with the contact.

Academic Period

The periods of time in which courses are offered by the institution, such as a term or semester.

Logical Name	Type	Description
mshied_code	String	Abbreviated code for the academic period.
mshied_enddate	DateTime	
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	The name of the academic period.
mshied_startdate	DateTime	
ownerid	Owner	Owner Id

Academic Period Detail

Status between student and their academic periods.

Logical Name	Type	Description
mshied_academicperiodid	Lookup	

Logical Name	Type	Description
mshied_attendancetype	Picklist	The enrollment attendance type for the student.
mshied_creditload	Integer	Assigned credit load for academic period
mshied_educationlevelid	Lookup	The education level for the student.
mshied_employedhoursperweek	Integer	Employed for how many hours/week?
mshied_isathlete	Boolean	Athlete
mshied_employed	Boolean	Employed
mshied_isinternationalstudent	Boolean	International Student
mshied_isironfile	Boolean	ISIR received and on file?
mshied_istransferstudent	Boolean	Transfer Student
mshied_majorcreditearned	Integer	Major Credit Earned
mshied_majorgpa	Decimal	Major GPA
mshied_midtermdeficiency	Boolean	Mid-Term Deficiency
mshied_name	String	The name of the custom entity.
mshied_programid	Lookup	The program for the student.
mshied_studentid	Lookup	Lookup to Student (Contact).
mshied_termcreditsearned	Integer	Term Credits Earned
mshied_termgpa	Decimal	Term GPA
ownerid	Owner	Owner Id

Area of Interest

The master list of all area of interests offered by an institution. Areas of interest are higher level subject groupings like astronomy, or business.

Logical Name	Type	Description
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	Area of Interest instance name
ownerid	Owner	Owner Id

Area of Study

The master list of all area of studies offered by an institution. Areas of studies are more specific program offerings, such as Master's of Public Administration - Emergency Management.

Logical Name	Type	Description
mshied_code	String	Abbreviated code for the area of study.
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System

Logical Name	Type	Description
mshied_minimumrequiredgpa	Decimal	Minimum Required GPA
mshied_name	String	The name of the custom entity.
mshied_programtypeid	Lookup	The program type for the area of study, such as major or concentration.
mshied_requiredcredits	Decimal	The number of credits required to be completed by a student pursuing the area of study.
ownerid	Owner	Owner Id

Course

The master list of all courses offered by an institution.

Logical Name	Type	Description
mshied_academiclevel	Picklist	Academic Level
mshied_coursenumber	String	The number of the course.
mshied_enddate	DateTime	The end date of the course.
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	The name or title of the course.
mshied_prerequisites	String	
mshied_section	String	The specific section of the course.
mshied_startdate	DateTime	The start date of the course.
mshied_subject	String	The subject the course is related to.
ownerid	Owner	Owner Id

Course History

The course history for a student.

Logical Name	Type	Description
mshied_academicperioddetailsid	Lookup	The academic period details record for the student
mshied_continuingeducation	Picklist	Continuing Education
mshied_courseid	Lookup	The course record for the student.
mshied_coursesectionid	Lookup	Unique identifier for Course Section associated with Course History.
mshied_creditsattempted	Decimal	The credits attempted received.
mshied_creditsearned	Decimal	The credits earned received.
mshied_gradepoints	Decimal	The grade points received.
mshied_lastdateofattendance	DateTime	The last date of attendance received.
mshied_lettergrade	String	The letter grade received for the course.
mshied_midtermlettergrade	String	The mid term letter grade received.
mshied_midtermnumericgrade	Integer	The mid term numeric grade received.
mshied_name	String	Course History Entity

Logical Name	Type	Description
mshied_registrationstatusid	Lookup	The registration status received.
mshied_studentid	Lookup	Lookup to student (Contact)
ownerid	Owner	Owner Id

Course Section

The relationship between an instructor and a specific course.

Logical Name	Type	Description
mshied_academicperiodid	Lookup	Lookup to Academic Period.
mshied_campusid	Lookup	Campus Location of the course.
mshied_coursedaytime	String	Text field to store the date and time of the course.
mshied_courseid	Lookup	Lookup to Course
mshied_instructorid	Lookup	Instructor
mshied_location	String	Specific Meeting Location
mshied_name	String	The name of the custom entity.
mshied_prerequisites	String	Prerequisites
ownerid	Owner	Owner Id

Education Level

The master list of all education levels mapped in the external system, such as Associate of Arts, Bachelor, Certificate.

Logical Name	Type	Description
mshied_code	String	Education Level Code
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	Education Level instance name
ownerid	Owner	Owner Id

Extra Curricular Activity

The master list of all extra curricular activities tracked by the institution.

Logical Name	Type	Description
mshied_code	String	Education Level Code
mshied_dateoforganizationformed	DateTime	Date of Organization\Club Formed
mshied_description	String	Description

Logical Name	Type	Description
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_generalemail	String	General Email of the Organization/Club
mshied_name	String	The name of the custom entity.
mshied_organizationmissionstatement	Memo	Organization Mission Statement
mshied_primarycontactid	Lookup	Primary contact for club
mshied_primarypurpose	Picklist	Indicates primary focus or purpose of the organization.
mshied_schoolid	Lookup	Link to School (Account)
mshied_website	String	General website of the Organization/Club
ownerid	Owner	Owner Id

Extra Curricular Participant

The relationship between a Contact and a specific Extra Curricular Activity.

Logical Name	Type	Description
mshied_awardsreceived	String	Awards received at the Extra Curricular Activity or Club.
mshied_contactid	Lookup	Lookup to Student (Contact).
mshied_enddate	DateTime	End Date
mshied_extracurricularactivityid	Lookup	Lookup to Extra Curricular
mshied_name	String	The name of the custom entity.
mshied_positionsheld	String	Positions held at the Extra Curricular Activity or Club
mshied_source	Picklist	Source of the student's extra curricular activity record.
mshied_startdate	DateTime	Start Date
mshied_state	Picklist	
ownerid	Owner	Owner Id

Previous Education

The previous education history for a student.

Logical Name	Type	Description
mshied_classsize	Integer	Class Size
mshied_dateofenrollment	DateTime	Date of Enrollment
mshied_degreeid	Lookup	Lookup to Program Level
mshied_educationlevelid	Lookup	The education level for the student.
mshied_gpa	Decimal	GPA
mshied_graduated	Boolean	Did the contact graduate?

Logical Name	Type	Description
mshied_graduationdate	DateTime	The graduation date for the student.
mshied_lastdateofattendance	DateTime	Last Date of Attendance
mshied_major	String	Major
mshied_name	String	Previous Education Name
mshied_rank	Integer	Rank within the graduating class
mshied_schoolnameid	Lookup	The school previously attended
mshied_studentid	Lookup	
ownerid	Owner	Owner Id

Program

The master list of all program levels offered by the institution.

Logical Name	Type	Description
mshied_code	String	Program Code
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	Program Name
ownerid	Owner	Owner Id

Program Level

Collection of all Program Levels offered by the institution

Logical Name	Type	Description
mshied_code	String	Program Level Code
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	Program Level Name
ownerid	Owner	Owner Id

Program Version

The master list of all program versions defined by the institution.

Logical Name	Type	Description
mshied_code	String	Abbreviated code for the program version.

Logical Name	Type	Description
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	Program Version Name
mshied_programid	Lookup	Lookup to the program.
mshied_programlevelid	Lookup	Link to Program Level entity
ownerid	Owner	Owner Id

Program Version Detail

The master list of program versions start dates defined by the institution.

Logical Name	Type	Description
mshied_code	String	Registration code.
mshied_expectedgraduationdate	DateTime	The expected graduation date for the program version start date instance.
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_midpointdate	DateTime	Midpoint Date
mshied_mustgraduatebefore	DateTime	Must Graduate Before
mshied_name	String	Program Version Start Date Code
mshied_programversionid	Lookup	Lookup to the program version.
mshied_startdate	DateTime	Start Date
ownerid	Owner	Owner Id

Registration Status

The master list of registration statuses tracked by the institution. The registration status is associated to the student course history.

Logical Name	Type	Description
mshied_code	String	
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	The name of the custom entity.
ownerid	Owner	Owner Id

Student Program Type

The master list of program types defined by the institution, such as major, minor, or concentration.

Logical Name	Type	Description
mshied_name	String	The name of the program type.
ownerid	Owner	Owner Id

Student Status

The master list of student statuses defined by the institution.

Logical Name	Type	Description
mshied_code	String	Student Status Code
mshied_externalidentifier	String	External Identifier
mshied_externalsourcesystem	Picklist	External Source System
mshied_name	String	The name of the custom entity.
ownerid	Owner	Owner Id

Test Score

Test scores for a Student Contact

Logical Name	Type	Description
mshied_actcomposite	Integer	ACT - Composite Score
mshied_actela	Integer	ACT - ELA Score
mshied_actenglish	Integer	ACT - English Score
mshied_actequivalentscore	Integer	ACT equivalent score for a given SAT Score
mshied_actmath	Integer	ACT - Math Score
mshied_actreading	Integer	ACT - Reading Score
mshied_actscience	Integer	ACT - Science Score
mshied_actstem	Integer	ACT - STEM Score
mshied_actwriting	Integer	ACT - Writing Score
mshied_alevelart	Decimal	A-level Art
mshied_gmatanalyticalwriting	Decimal	GMAT - Analytical Writing Score
mshied_gmatintegratedreasoning	Integer	GMAT - Integrated Reasoning Score
mshied_gmatquantitativereasoning	Integer	GMAT - Quantitative Reasoning Score
mshied_gmattotal	Integer	GMAT - Total Score
mshied_gmatverbalreasoning	Integer	GMAT - Verbal Reasoning Score
mshied_greanalyticalreasoning	Decimal	GRE - Analytical Reasoning Score
mshied_grequantitativereasoning	Integer	GRE - Quantitative Reasoning Score
mshied_gretotalscore	Integer	GRE - Total Score
mshied_greverbalreasoning	Integer	GRE - Verbal Reasoning Score

Logical Name	Type	Description
mshied_ieltscefr	Picklist	IELTS - CEFR
mshied_ieltslistening	Decimal	IELTS - Listening score
mshied_ieltsoverallbandscore	Decimal	IELTS - Overall Band Score
mshied_ieltsreading	Decimal	IELTS - Reading Score
mshied_ieltsspeakingscore	Decimal	IELTS - Speaking Score
mshied_ieltswriting	Decimal	IELTS - Writing Score
mshied_name	String	The name of the Test Score.
mshied_satessayanalysis	Integer	SAT - SAT Essay - Analysis Score
mshied_satessayreading	Integer	SAT - SAT Essay - Reading Score
mshied_satessaywriting	Integer	SAT - SAT Essay - Writing Score
mshied_satevidencebasedreadingandwritingsection	Integer	SAT - Evidence-Based Reading and Writing Section Score
mshied_satmathsection	Integer	SAT - Math Section Score
mshied_sattotalscore	Integer	SAT - Total Score
mshied_studentid	Lookup	Lookup to the Student (Contact Id)
mshied_testdate	DateTime	Date when test was taken
mshied_testlocation	String	Location where the test was taken
mshied_testscorevalue	String	Test Score Value
mshied_testsource	Picklist	Source of Test score
mshied_testtypeid	Lookup	List of test types
mshied_toefllisteningsection	Integer	TOEFL - Listening Section Score
mshied_toeflreadingsection	Integer	TOEFL - Reading Section Score
mshied_toeflspeakingsection	Integer	TOEFL - Speaking Section Score
mshied_toefltotalscore	Decimal	TOEFL - Total Score
mshied_toeflwritingsection	Integer	TOEFL - Writing Section Score
ownerid	Owner	Owner Id

Test Type

Type of test taken by a Student Contact

Logical Name	Type	Description
mshied_name	String	The name of the custom entity.
ownerid	Owner	Owner Id