

# OLAD Data Dictionary

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## Dimension Tables

### dim\_student

**Description:** Student demographic and background information

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
StudentSK	INTEGER	PK	Surrogate key for student dimension
id_student	INTEGER		Original student identifier from source system
gender	VARCHAR (10)		Student gender (M, F, Unknown)
age_band	VARCHAR (20)		Age category (0-35, 35-55, 55+, Unknown)
highest_education	VARCHAR (50)		Highest level of education completed
region	VARCHAR (50)		Geographic region of student residence
imd_band	VARCHAR (20)		Index of Multiple Deprivation band
num_of_prev_attempts	INTEGER		Number of previous attempts at the course
disability	VARCHAR (5)		Whether student has declared a disability (Y, N)

### dim\_course

**Description:** Course presentation information and scheduling details

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
CourseSK	INTEGER	PK	Surrogate key for course dimension
course_presentation_id	VARCHAR (20)		Unique course presentation identifier
code_module	VARCHAR (10)		Course module code (e.g., AAA, BBB, CCC)
code_presentation	VARCHAR (10)		Presentation code (e.g., 2013B, 2014J)
semester_name	VARCHAR (20)		Full semester name (e.g., February 2013)
year	VARCHAR (4)		Academic year of course presentation
semester_type	VARCHAR (10)		Type of semester (February, October)
module_presentation_length	INTEGER		Duration of course presentation in days

### dim\_assessment

**Description:** Assessment metadata including type, weight, and due dates

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
AssessmentSK	INTEGER	PK	Surrogate key for assessment dimension
assessment_full_id	VARCHAR (50)		Unique assessment identifier
id_assessment	INTEGER		Original assessment identifier
code_module	VARCHAR (10)		Course module code for this assessment
code_presentation	VARCHAR (10)		Presentation code for this assessment
assessment_type	VARCHAR (20)		Type of assessment (TMA, CMA, Exam, Unknown)
assessment_category	VARCHAR (50)		Categorized assessment type
date	INTEGER		Due date as days from course start date
weight	DECIMAL (5, 2)		Assessment weight as percentage of final grade

## dim\_vle\_resource

**Description:** Virtual Learning Environment (VLE) resource metadata

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
ResourceSK	INTEGER	PK	Surrogate key for VLE resource dimension
resource_full_id	VARCHAR (50)		Unique resource identifier
id_site	INTEGER		Original site/resource identifier
code_module	VARCHAR (10)		Course module code for this resource
code_presentation	VARCHAR (10)		Presentation code for this resource
activity_type	VARCHAR (50)		Specific type of VLE activity
activity_category	VARCHAR (30)		Categorized activity type
week_from	INTEGER		Week number when resource becomes available
week_to	INTEGER		Week number when resource becomes unavailable

## dim\_time

**Description:** Date dimension for time-based analysis

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
DateSK	INTEGER	PK	Surrogate key for date dimension
FullDate	DATE		Complete date value (YYYY-MM-DD)
Year	INTEGER		Four-digit year
Quarter	INTEGER		Quarter of year (1-4)
Month	INTEGER		Month number (1-12)
MonthName	VARCHAR (20)		Full month name
Week	INTEGER		ISO week number (1-53)
DayOfWeek	INTEGER		Day of week number (0=Monday, 6=Sunday)
DayName	VARCHAR (20)		Full day name
IsWeekend	BOOLEAN		Flag indicating whether date is a weekend
Semester	VARCHAR (20)		Academic semester

## Fact Tables

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### fact\_student\_assessment

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**Description:** Student performance on individual assessments

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
StudentSK	INTEGER	FK	Foreign key to dim_student
CourseSK	INTEGER	FK	Foreign key to dim_course
AssessmentSK	INTEGER	FK	Foreign key to dim_assessment
score	DECIMAL (5, 2)		Assessment score (0-100, null if not submitted)
weight	DECIMAL (5, 2)		Assessment weight as percentage of final grade
is_submitted	BOOLEAN		Flag indicating whether assessment was submitted
is_passed	BOOLEAN		Flag indicating whether assessment was passed with score >= 40
is_late	BOOLEAN		Flag indicating whether submission was late
days_late	INTEGER		Number of days after due date submission was made
is_banked	BOOLEAN		Flag indicating whether result was carried forward from previous attempt

### fact\_student\_course

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**Description:** Student course enrollments with final outcomes

COLUMN NAME	DATA TYPE	KEY	DESCRIPTION
StudentSK	INTEGER	FK	Foreign key to dim_student
CourseSK	INTEGER	FK	Foreign key to dim_course
studied_credits	INTEGER		Number of credits student registered for in this course
num_of_prev_attempts	INTEGER		Number of previous attempts at this specific course
date_registration	INTEGER		Registration date as days from course start
date_unregistration	INTEGER		Unregistration date as days from course start
final_result	VARCHAR (20)		Final course outcome (Distinction, Pass, Fail, Withdrawn)
final_result_code	INTEGER		Numeric encoding of final result
is_completed	BOOLEAN		Flag indicating successful course completion
is_distinction	BOOLEAN		Flag indicating distinction achievement
is_withdrawn	BOOLEAN		Flag indicating course withdrawal