Version 4.2.7

Intro

The following documentation describes the data dictionary for the Canvas Data warehouse. Following typical data warehouse conventions, the database records from canvas are transformed into a fact and dimension tables. Put succinctly, fact tables contain measurements and dimension tables contain the different dimensions that can be used to slice and aggregate the data (see [Dimensional Modeling](#)). Canvas Data mostly adheres to a Star schema convention, which means that most of the relations should only be one join away (see [Star schema](#)). These tables are either available as a set of flat files or hosted in a Amazon Redshift instance which is optimized for a range of analytical queries. For help with Canvas Data, please try posting on the JIVE forum. For more information on Canvas Data, please contact your CSM.

Notes

- All timestamps in Canvas Data are UTC

assignment_fact

Table contains measures related to assignments.

Type: fact

Columns

Name	Type	Description
assignment_id	bigint	Foreign key to assignment dimension
course_id	bigint	Foreign key to the course associated with this assignment
course_account_id	bigint	Foreign key to the account associated with the course associated with this assignment
enrollment_term_id	bigint	Foreign Key to enrollment term table
points_possible	double precision	Total points possible for the assignment
peer_review_count	int	The number of pears to assign for review if using algorithmic assignment
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
external_tool_id	bigint	Foreign key to the external tool activation if this assignment uses an external tool for submissions.

assignment_group_fact

Measures for assignment_groups.

Type: fact

Columns

Name	Type	Description
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
course_id	bigint	Foreign key to the course to which the assignment group belongs to.
group_weight	double precision	Weight of the assignment group. Reflects the value populated in the '% of total grade' field in Canvas while creating the assignment group.

assignment_group_score_fact

Table containing measures for Assignment Group scores within Canvas gradebook.

Type: fact

Columns

Name	Type	Description
score_id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
account_id	bigint	Foreign key to the Account group table.
course_id	bigint	Foreign key to the Course group table.
assignment_group_id	bigint	Foreign key to the Assignment group table.
enrollment_id	bigint	Foreign key to the Enrollment table.
current_score	double precision	Current score.
final_score	double precision	Final score.
muted_current_score	double precision	Current score that might not yet be public, or is muted.
muted_final_score	double precision	Final score that might not yet be public. Or is muted.

assignment_override_fact

Table contains measures related to assignment overrides. Overrides can be found in the assignment_override_dim. Overrides are primarily the dates about the assigments for a given group of assignees.

Type: fact

Columns

Name	Type	Description
assignment_override_id	bigint	Unique surrogate ID for the assignment_override.
account_id	bigint	Foreign key to the account associated with the course associated with this assignment.
assignment_id	bigint	Foreign key to the assignment the override is associated with. May be empty.
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
course_id	bigint	Foreign key to the course associated with this assignment.
course_section_id	bigint	Foreign key to the course_section.
enrollment_term_id	bigint	Foreign Key to enrollment term table.

Name	Type	Description
group_id	bigint	Foreign key to the group.
group_category_id	bigint	(Not implemented) Foreign key to group category dimension table.
group_parent_account_id	bigint	If the group is directly associated with an account, this is the id.
nonxlist_course_id	bigint	The course ID for the original course if this course has been cross listed.
quiz_id	bigint	Foreign key to the quiz the override is associated with. May be empty.
group_wiki_id	bigint	Foreign key to the wiki_dim table.

assignment_override_user_fact

Table contains measures related to students for whom an assignment override exists.

Type: fact

Columns

Name	Type	Description
assignment_override_user_id	bigint	Unique surrogate ID for the assignment_override_student. Is made up by adding a large number to the ID of the source table.
account_id	bigint	Foreign key to the account associated with the course associated with this assignment.
assignment_group_id	bigint	Foreign key to the assignment group dimension this fact is related to
assignment_id	bigint	Foreign key to the assignment the override is associated with. May be empty.
assignment_override_id	bigint	Foreign key to the assignment override dimension this fact is related to
course_id	bigint	Foreign key to the course associated with this assignment.
enrollment_term_id	bigint	Foreign Key to enrollment term table.
quiz_id	bigint	Foreign key to the quiz the override is associated with. May be empty.
user_id	bigint	Foreign key to the user.

assignment_override_user_rollup_fact

Table contains measures related to students for whom an assignment override exists. This table contains the user ids of users for whom an override was created. There are 3 ways a user can be included, via an adhoc form, via a group membership, or a course section. All three are included here.

Type: fact

Columns

Name	Type	Description
assignment_id	bigint	Foreign key to the assignment the override is associated with. May be empty.
assignment_override_id	bigint	The ID of the assignment_override for this override user.
assignment_override_user_adhoc_id	bigint	When not empty, this field is the ID of the user in the adhoc group table.
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
course_id	bigint	Foreign key to the course associated with this assignment.

Name	Type	Description
course_account_id	bigint	Foreign key to the account associated with the course associated with this assignment.
course_section_id	bigint	When not empty, this field is the ID of the course_section the user is part of.
enrollment_id	bigint	When not empty, this field is the ID of the enrollment for a course section.
enrollment_term_id	bigint	Foreign Key to enrollment term table.
group_category_id	bigint	When not empty, this field is the ID of the group category the user is part of.
group_id	bigint	When not empty, this field is the ID of the group the user is part of.
group_parent_account_id	bigint	If the group is directly associated with an account, this is the id.
group_wiki_id	bigint	Foreign key to the wiki_dim table.
nonxlist_course_id	bigint	The course ID for the original course if this course has been cross listed.
quiz_id	bigint	Foreign key to the quiz the override is associated with. May be empty.
user_id	bigint	Foreign key to the user.

catalog_order_fact

Measures for catalog orders

Type: fact

Columns

Name	Type	Description
catalog_order_id	bigint	Foreign key to the catalog order dim
catalog_id	bigint	Foreign key to the catalog dim
parent_catalog_id	bigint	Foreign key to the catalog dim. References the parent of the catalog that this order belongs to
user_id	bigint	Foreign key to the user dim. Refers to the user associated with this order
total	double precision	Cost of the catalog order. Units are found in catalog_order_dim.currency

catalog_order_item_fact

Measures for catalog order items

Type: fact

Columns

Name	Type	Description
catalog_order_item_id	bigint	Foreign key to the catalog order item dim
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this order item belongs to
parent_catalog_id	bigint	Foreign key to the catalog dim. References the parent of the catalog that this order item belongs to
catalog_order_id	bigint	Foreign key to the catalog order dim

Name	Type	Description
catalog_product_id	bigint	Foreign key to the catalog product dim. Refers to the course or program associated with this order item
catalog_promotion_id	bigint	Foreign key to the catalog promotion dim
amount	double precision	Cost of the catalog order. Units are found in catalog_order_dim.currency

catalog_payment_fact

Measures for catalog payments

Type: fact

Columns

Name	Type	Description
catalog_payment_id	bigint	Foreign key to the catalog payment dim
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this payment belongs to
parent_catalog_id	bigint	Foreign key to the catalog dim. References the parent of the catalog this payment belongs to
catalog_order_id	bigint	Foreign key to the catalog order dim
amount	double precision	The payment amount

catalog_product_fact

Facts for products in Canvas Catalog. A product can be either a course or a program listing

Type: fact

Columns

Name	Type	Description
catalog_product_id	bigint	Foreign key to the catalog product dim
catalog_id	bigint	Foreign key to the catalog dim
parent_catalog_id	bigint	Foreign key to the catalog dim. References the parent of the catalog that this product belongs to
course_id	bigint	Foreign key to the course dim if this product is a course
enrollment_term_id	bigint	Foreign key to the enrollment term dim
enrollment_fee	double precision	Cost of the catalog product. Units are found in catalog_dim.currency
credits	double precision	Number of credits the course is worth if the product is a course

Name	Type	Description
waitlist_capacity	int	The maximum capacity of the waitlist. Null if the waitlist has no maximum capacity
enrollment_capacity	int	The maximum enrollment capacity for the course or program

catalog_program_requirement_fact

Facts for the courses or programs required for completion of a program

Type: fact

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the program requirement
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog in which this requirement is defined
catalog_program_id	bigint	Foreign key to the catalog product dim. This ID refers to the program that requires the program or course referred to by "catalog_product_id"
catalog_product_id	bigint	Foreign key to the catalog product dim. This ID refers to the program or course required by the program referred to by "catalog_program_id"
course_id	bigint	Foreign key to the course dim. Refers to the required course if the requirement refers to a course

catalog_promotion_fact

Measures for catalog promotions

Type: fact

Columns

Name	Type	Description
catalog_promotion_id	bigint	Foreign key to the catalog promotion dim
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this promotion belongs to
parent_catalog_id	bigint	Foreign key to the catalog dim. References the parent of the catalog this promotion belongs to
catalog_product_id	bigint	Foreign key to the associated course or program from the catalog product dim. If null, this promotion is available for all courses or programs in the catalog
amount	double precision	The amount of the promotion. If discount_type is "flat", this represents an amount in currency. If discount_type is "percent", this represents a percentage

communication_channel_fact

Measures for communication channel.

Type: fact

Columns

Name	Type	Description
communication_channel_id	bigint	Foreign key to the communication channel dimension table.
user_id	bigint	Foreign key to the user that owns this communication channel.
bounce_count	integer	Number of permanent bounces since the channel was last reset. If it's greater than 0, then no email is sent to the channel, until it is either reset by a siteadmin or it is removed and re-added by a user.

conference_fact

Measures for conferences

Type: fact

Columns

Name	Type	Description
conference_id	bigint	Foreign key to the conference dimension table
group_id	bigint	Foreign key to the group if this conference was associated with a group
course_id	bigint	Foreign key to the course if this conference was associated with a course
account_id	bigint	Foreign key to the account if this conference was associated with an account
duration	double precision	

conference_participant_fact

Measures for conference participants

Type: fact

Columns

Name	Type	Description
conference_participant_id	bigint	Foreign key to the conference participant
group_id	bigint	Foreign key to the group if this conference was associated with a group
course_id	bigint	Foreign key to the course if this conference was associated with a course
account_id	bigint	Foreign key to the account if this conference was associated with an account
user_id	bigint	Foreign key to the user who is the conference participant
conference_id	bigint	Foreign key to the conference

conversation_message_participant_fact

Fact table for each message in a conversation and each participant

type: fact

Columns

Name	Type	Description
conversation_message_id	bigint	Foreign key to the message dimension for the associated message.
conversation_id	bigint	Foreign key to the conversation dimension for the associated conversation
user_id	bigint	Foreign key to the user dimension for the associated user
course_id	bigint	Foreign key to the course dimension for the associated course.
enrollment_term_id	bigint	Foreign Key to enrollment term table
course_account_id	bigint	Foreign Key to the course's account
group_id	bigint	Foreign key to the group dimension for a particular group
account_id	bigint	Foreign key to account_dim
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table
message_size_bytes	int	The message size in bytes.
message_character_count	int	The message size in characters.
message_word_count	int	The message size in words using space and common punctuation as word breaks.
message_line_count	int	The number of lines in a message.

course_score_fact

Table containing measures for overall course scores within Canvas gradebook.

type: fact

Columns

Name	Type	Description
score_id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
account_id	bigint	Foreign key to the Account group table.
course_id	bigint	Foreign key to the Course group table.
enrollment_id	bigint	Foreign key to the Enrollment table.
current_score	double precision	Current score.
final_score	double precision	Final score.
muted_current_score	double precision	Current score that might not yet be public, or is muted.
muted_final_score	double precision	Final score that might not yet be public. Or is muted.

course_ui_navigation_item_fact

Facts describing a single item in the navigation UI

type: fact

Columns

Name	Type	Description
root_account_id	bigint	Foreign key to root account of the course
course_ui_navigation_item_id	bigint	Foreign key to course_ui_navigation_item_dim
course_ui_canvas_navigation_id	bigint	Foreign key to navigation function
external_tool_activation_id	bigint	Foreign key to external_tool_activation_dim
course_id	bigint	Foreign key to course
course_account_id	bigint	Foreign key to account for course
enrollment_term_id	bigint	Foreign key to enrollment term

discussion_entry_fact

Measures for discussion entries. Discussion entries are replies in a discussion topic.

Type: fact

Columns

Name	Type	Description
discussion_entry_id	bigint	Foreign key to this entries attributes.
parent_discussion_entry_id	bigint	Foreign key to the reply that it is nested underneath.
user_id	bigint	Foreign key to the user that created this entry.
topic_id	bigint	Foreign key to associated discussion topic.
course_id	bigint	Foreign key to associated course.
enrollment_term_id	bigint	Foreign Key to enrollment term table
course_account_id	bigint	Foreign key to account for associated course.
topic_user_id	bigint	Foreign key to user that posted the associated discussion topic.
topic_assignment_id	bigint	Foreign key to assignment associated with the entry's discussion topic.
topic_editor_id	bigint	Foreign key to editor associated with the entry's discussion topic.
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table
message_length	int	Length of the message in bytes

discussion_topic_fact

Measures for discussion topics/threads.

Type: fact

Columns

Name	Type	Description
discussion_topic_id	bigint	Foreign key to the discussion topic dimension for the associated discussion topic.

Name	Type	Description
course_id	bigint	Foreign key to the course dimension
enrollment_term_id	bigint	Foreign Key to enrollment term table
course_account_id	bigint	(currently un-populated) Foreign key to the account dimension for the account associated with the associated course
user_id	bigint	Foreign key to the user dimension for the user that created the discussion topic.
assignment_id	bigint	Foreign key to the assignment dimension
editor_id	bigint	Foreign key to the user to last edit the entry, if different than user_id
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table
message_length	int	Best guess at the count of characters in the message. Special characters are treated differently in different systems. As a result, you may find variance in message length in your own systems. NULL messages are mapped to 0 length.
group_id	bigint	Foreign key to the group dimension
group_parent_course_id	bigint	Foreign key to course dimension.
group_parent_account_id	bigint	Foreign key to accounts table.
group_parent_course_account_id	bigint	Foreign key to the account dimension for the account associated with the course to which the group belongs to.

enrollment_fact

Measures for enrollments

Type: fact

Columns

Name	Type	Description
enrollment_id	bigint	Foreign key for the attributes of the enrollment
user_id	bigint	Foreign key to the enrolled user
course_id	bigint	Foreign key to the enrolled course
enrollment_term_id	bigint	Foreign key to the enrollment term table
course_account_id	bigint	Foreign key to the account of the enrolled course
course_section_id	bigint	Foreign key to the enrolled section
computed_final_score	double precision	[Deprecated] No longer used in Canvas, will always be NULL.
computed_current_score	double precision	[Deprecated] No longer used in Canvas, will always be NULL.

external_tool_activation_fact

Facts and denormalized dimensions for external tool (LTI) activations.

Type: fact

Columns

Name	Type	Description
external_tool_activation_id	bigint	Foreign key to the external_tool_activation_dim dimension with attribute for this activation
course_id	bigint	Foreign key to the course if this tool was activated in a course
account_id	bigint	Foreign key to the account this tool was activated in if it was activated in an account
root_account_id	bigint	Foreign key to the root account for this data
enrollment_term_id	bigint	Foreign key to the course's enrollment term if this tool was activated in a course
course_account_id	bigint	Foreign key to the course's account if this tool was activated in a course

file_fact

Measures for files.

Type: fact

Columns

Name	Type	Description
file_id	bigint	Foreign key to this file dimesion table.
account_id	bigint	Foreign key to the account this file belongs to.
assignment_id	bigint	Foreign key to the assignment, the quiz/quiz submission/submission associated with this file belongs to.
assignment_group_id	bigint	Foreign key to the assignment group, the assignment/submission associated with this file belongs to.
conversation_id	bigint	Foreign key to the conversation, the conversation message associated with this file belongs to.
conversation_message_author_id	bigint	Foreign key to the user, who authored the conversation message this file belongs to.
conversation_message_id	bigint	Foreign key to the conversation message this file belongs to.
course_id	bigint	Foreign key to the course, the assignment/quiz/quiz submission/submission associated with this file belongs to.
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up, the quiz submission/submission associated with this file belongs to.
enrollment_term_id	bigint	Foreign Key to enrollment term, the assignment/conversation message/group/quiz/quiz submission/submission associated with this file belongs to.
folder_id	bigint	Foreign key to the folder this file belongs to.
grader_id	bigint	Foreign key to the user who graded the submission associated with this file. Please see submission_id for clarification on the relationship between a file and a submission.
group_id	bigint	Foreign key to the group this file belongs to.
group_category_id	bigint	(Not implemented) Foreign key to group category the group associated with this file belongs to.
quiz_id	bigint	Foreign key to the quiz, the quiz/quiz submission associated with this file belongs to.

Name	Type	Description
quiz_submission_id	bigint	Foreign key to the quiz submission this file belongs to.
replacement_file_id	bigint	Foreign key to the file which overwrote/replaced this file. Defaults to 'NULL' when the file was not overwritten/replaced.
root_file_id	bigint	Foreign key to the source file from which this file was copied and created. Defaults to 'NULL' when this is the only copy.
sis_source_id	varchar	Correlated ID for the record for the course, associated with this file, in the SIS system (assuming SIS integration is configured).
submission_id	bigint	Foreign key to the submission this file belongs to if the file's context was a submission or quiz submission. A file's context is an independent attribute from its relationship with a submission. Files have a many-to-many relationship with submissions in Canvas which requires a junction table to represent. See submission_file_fact for details on the junction table that links files to submissions.
uploader_id	bigint	Foreign key to the user who uploaded this file. Might contain users which are not in the user dimension table.
user_id	bigint	Foreign key to the user this file belongs to.
wiki_id	bigint	Foreign key to the wiki the conversation message/group/submission associated with this file belongs to.
size	bigint	Size of this file in bytes.

grading_period_fact

Measures for grading periods.

Type: fact

Columns

Name	Type	Description
grading_period_id	bigint	Unique surrogate identifier for the grading period.
canvas_id	bigint	Primary key for the grading period.
grading_period_group_id	bigint	Foreign key to the grading period group table.
grading_period_group_account_id	bigint	One hop ID to the Account table for the grading period group
grading_period_group_course_id	bigint	One hop ID to the Course table for the grading period group
weight	double precision	A weight value that contributes to the overall weight of a grading period set which is used to calculate how much assignments in this period contribute to the total grade.

grading_period_score_fact

Table containing measures for Grading Period scores within Canvas gradebook.

Type: fact

Columns

Name	Type	Description
score_id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
account_id	bigint	Foreign key to the Account group table.
course_id	bigint	Foreign key to the Course group table.
enrollment_id	bigint	Foreign key to the Enrollment table.
grading_period_id	bigint	Foreign key to the grading period group table.
grading_period_group_id	bigint	Foreign key to the grading period group table.
grading_period_group_account_id	bigint	One hop ID to the Account table for the grading period group table.
current_score	double precision	Current score.
final_score	double precision	Final score.
muted_current_score	double precision	Current score that might not yet be public, or is muted.
muted_final_score	double precision	Final score that might not yet be public. Or is muted.

group_fact

Measures for groups.

Type: fact

Columns

Name	Type	Description
group_id	bigint	Foreign key to the group dimension for a particular group.
parent_course_id	bigint	Foreign key to course dimension.
parent_account_id	bigint	Foreign key to accounts table.
parent_course_account_id	bigint	Foreign key to the account dimension for the account associated with the course to which the group belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term table for the parent course.
max_membership	int	Maximum number of users that can be accommodated in a group.
storage_quota	bigint	Storage Limit allowed per group.
group_category_id	bigint	(Not implemented) Foreign key to group category dimension table.
account_id	bigint	Parent account for this group.
wiki_id	bigint	Foreign key to the wiki_dim table.

group_membership_fact

Measures for groups.

Type: fact

Columns

Name	Type	Description
group_id	bigint	Foreign key to the group dimension for a particular group.
parent_course_id	bigint	Foreign key to course dimension.
parent_account_id	bigint	Foreign key to accounts table.
parent_course_account_id	bigint	Foreign key to the account dimension for the account associated with the course to which the group belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term table for the parent course.
user_id	bigint	Foreign key to the user dimension for the users in the group.
group_membership_id	varchar	The ID of the membership object

earning_outcome_fact

earning outcomes are measurable statements that express student knowledge or a student skill. This table contains measures for learning outcomes.

ype: fact

Columns

Name	Type	Description
learning_outcome_id	bigint	Foreign key to the learning outcome dimension
account_id	bigint	Foreign key to the account associated with this outcome, if this outcome was created at the account level.
course_id	bigint	Foreign key to the course associated with this outcome, if this outcome was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with this outcome, if this outcome was created at the course level.
mastery_points	double precision	Minimum number of points required in order for the student to have acheived mastery
points_possible	double precision	Maximum number of points acheivable for this outcome
outcome_import_id	bigint	Foreign key to the outcome import associated with this outcome, if this outcome was imported.

earning_outcome_group_association_fact

association table to represent the many to many relationship between learning outcomes and learning outcome groups

ype: fact

Columns

Name	Type	Description

Name	Type	Description
learning_outcome_id	bigint	Foreign key to the learning outcome dimension
learning_outcome_group_id	bigint	Foreign key to the learning outcome group dimension
account_id	bigint	Foreign key to the account associated with this outcome group, if this outcome group was created at the account level.
course_id	bigint	Foreign key to the course associated with this outcome group, if this outcome group was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with this outcome group, if this outcome group was created at the course level.

learning_outcome_group_fact

Learning outcome groups organize outcomes hierarchically within a context, such as an account, course or the global context. This table contains measures for learning outcome groups.

Type: fact

Columns

Name	Type	Description
learning_outcome_group_id	bigint	Foreign key to the learning outcome group dimension.
account_id	bigint	Foreign key to the account associated with this outcome group, if this outcome group was created at the account level.
course_id	bigint	Foreign key to the course associated with this outcome group, if this outcome group was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with this outcome group, if this outcome group was created at the course level.
parent_group_id	bigint	ID associated with the parent of this group. Refers to a learning_outcome_group record.
root_group_id	bigint	ID associated with the root group in the group hierarchy. Refers to a learning_outcome_group record.
outcome_import_id	bigint	Foreign key to the outcome import associated with this outcome group, if this group was imported.

learning_outcome_question_result_fact

Facts for the results of answered questions which have been associated with a learning outcome

Type: fact

Columns

Name	Type	Description
learning_outcome_question_result_id	bigint	Foreign key to the learning oucome question result

Name	Type	Description
learning_outcome_result_id	bigint	Foreign key to the learning outcome result
learning_outcome_id	bigint	Foreign key to the learning outcome this record is associated with
assessment_question_id	bigint	Foreign key to the assessment question this record is associated with (assessment_questions to be included in a future release)
user_id	bigint	Foreign key to the user dim. Refers to the user associated with this result.
account_id	bigint	Foreign key to the account associated with the outcome which this result belongs to, if the outcome was created at the account level.
course_id	bigint	Foreign key to the course associated with the outcome which this result belongs to, if the outcome was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with the outcome which this result belongs to, if the outcome was created at the course level.
assignment_id	bigint	Foreign key to the assignment associated with the outcome result, if the result was associated with an assignment
quiz_id	bigint	Foreign key to the quiz associated with the outcome result, if the result was associated with a quiz
mastery	boolean	Boolean indicating whether user achieved mastery for this question
score	double precision	The student's score on the question
attempts	int	The total number of attempts, or submissions.
possible	double precision	Total number of points possible.
original_score	double precision	Score on the first attempt.
original_possible	double precision	Possible points on the first attempt.
original_mastery	boolean	Boolean indicating whether user achieved mastery.
percent	double precision	Score's percent of maximum points possible for an outcome, scaled to reflect any custom mastery levels that differ from the learning outcome.

learning_outcome_result_fact

Learning outcome results are a student's mastery score on a given outcome. This table contains measures for learning outcome results.

Type: fact

Columns

Name	Type	Description
learning_outcome_result_id	bigint	Foreign key to the learning outcome result dimension
account_id	bigint	Foreign key to the account associated with this outcome result, if this outcome result was created at the account level.

Name	Type	Description
course_id	bigint	Foreign key to the course associated with this outcome result, if this outcome result was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with this outcome group, if this outcome group was created at the course level.
assignment_id	bigint	Foreign key to the assignment associated with this outcome result, if this result was associated with an assignment
quiz_id	bigint	Foreign key to the quiz associated with this outcome result, if this result was associated with a quiz
learning_outcome_id	bigint	Foreign key to the learning outcome this result is associated with.
user_id	bigint	ID of the student who made the submission. Foreign key to the user dimension table
mastery	boolean	Boolean indicating whether user achieved mastery
score	double precision	The student's score.
attempts	int	The total number of attempts, or submissions.
possible	double precision	Total number of points possible.
original_score	double precision	Score on the first attempt.
original_possible	double precision	Possible points on the first attempt.
original_mastery	boolean	Boolean indicating whether user achieved mastery.
percent	double precision	Percent of maximum points possible for an outcome, scaled to reflect any custom mastery levels that differ from the learning outcome.

earning_outcome_rubric_criterion_fact

Contains measures for the criterion of a given outcome.

Type: fact

Columns

Name	Type	Description
learning_outcome_rubric_criterion_id	bigint	Foreign key to the learning outcome rubric criterion dimension
learning_outcome_id	bigint	Foreign key to the learning outcome dimension
account_id	bigint	Foreign key to the account associated with the criterion's outcome, if this outcome was created at the account level.
course_id	bigint	Foreign key to the course associated with the criterion's outcome, if this outcome was created at the course level.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course associated with this outcome, if this outcome was created at the course level.

Name	Type	Description
points	double precision	Points associated with the rubric criterion

module_completion_requirement_fact

Table containing measures related to module completion requirements.

Type: fact

Columns

Name	Type	Description
module_completion_requirement_id	bigint	Unique surrogate ID for the module completion requirement.
account_id	bigint	Foreign key to the account the module and the module item belong to.
assignment_id	bigint	Assignment associated with the module item.
assignment_group_id	bigint	Assignment group associated with the module item.
course_id	bigint	Foreign key to the course associated with this module and the module item.
discussion_topic_id	bigint	Discussion topic associated with the module item.
discussion_topic_editor_id	bigint	Editor of the discussion topic associated with the module item.
enrollment_rollup_id	bigint	Enrollment rollup associated with the module item.
enrollment_term_id	bigint	Foreign key to the enrollment term associated with this module and the module item.
file_id	bigint	File associated with the module item.
module_id	bigint	Module that contains the completion requirement.
module_item_id	bigint	Item that is the subject of the completion requirement.
quiz_id	bigint	Quiz associated with the module item.
user_id	bigint	User associated with the module item.
wiki_id	bigint	Foreign key to the wiki associated with this module and the module item.
wiki_page_id	bigint	Wiki page associated with the module_item.
min_score	double precision	For min_score type requirements, the score that must be attained for completion.

module_fact

Table containing measures related to modules.

Type: fact

Columns

Name	Type	Description
module_id	bigint	Foreign key to assignment dimension.

Name	Type	Description
account_id	bigint	Foreign key to the account the module belongs to.
course_id	bigint	Foreign key to the course associated with this assignment.
enrollment_term_id	bigint	Foreign key to the enrollment_term associated with the module_fact course.
wiki_id	bigint	Foreign key to the wiki associated with the module_fact course.

module_item_fact

Table containing measures related to modules_items.

Type: fact

Columns

Name	Type	Description
module_item_id	bigint	Unique surrogate ID for the module_item.
account_id	bigint	Foreign key to the account the module belongs to.
assignment_id	bigint	Key into assignments table for 'Assignment', 'DiscussionTopic', 'File', 'Quiz' type items.
assignment_group_id	bigint	Key into assignment_groups for 'Assignment', 'File' type items.
course_id	bigint	The course that owns this module.
discussion_topic_id	bigint	Key into discussion_topics table for 'DiscussionTopic' type items.
discussion_topic_editor_id	bigint	Key into users table for user who edited 'DiscussionTopic' type items.
enrollment_rollup_id	bigint	Key into enrollment_rollup table for user associated with 'DiscussionTopic', 'File' type items.
enrollment_term_id	bigint	Foreign key to the enrollment_term associated with the module course.
file_id	bigint	Key into file table for 'File' type items.
module_id	bigint	Parent module for this module item.
quiz_id	bigint	Key into quizzes table for 'File', 'Quiz' type items.
user_id	bigint	Key into users table for 'DiscussionTopic', 'File', 'WikiPage' type items.
wiki_id	bigint	Key into wiki table for 'WikiPage' type items.
wiki_page_id	bigint	Key into wiki_pages table for 'WikiPage' type items.

module_prerequisite_fact

Table containing measures related to module prerequisites.

Type: fact

Columns

Name	Type	Description
module_prerequisite_id	bigint	Unique surrogate ID for the module prerequisite.
account_id	bigint	Foreign key to the account the module belongs to.
course_id	bigint	Foreign key to the course associated with this assignment.

Name	Type	Description
enrollment_term_id	bigint	Foreign key to the enrollment_term associated with the module_fact course.
module_id	bigint	Module that contains the prerequisite.
prerequisite_module_id	bigint	Module that must be completed to fulfill the prerequisite.
prerequisite_wiki_id	bigint	Foreign key to the wiki associated with the module_fact course.
wiki_id	bigint	Foreign key to the wiki associated with the module_fact course.

module_progression_completion_requirement_fact

Table containing measures related to module progression completion requirements.

Type: fact

Columns

Name	Type	Description
module_progression_completion_requirement_id	bigint	Unique surrogate ID for the module progression completion requirement.
account_id	bigint	Key to the account associated with the module progression and the module item.
assignment_id	bigint	Key to the assignment associated with the module item.
assignment_group_id	bigint	Key to the assignment group associated with the module item.
course_id	bigint	Key to the course associated with the module progression and the module item.
discussion_topic_id	bigint	Key to the discussion topic associated with the module item.
discussion_topic_editor_id	bigint	Key to the user editing the discussion topic associated with the module item.
enrollment_rollup_id	bigint	Key to the enrollment rollup associated with the module item.
enrollment_term_id	bigint	Key to the enrollment term associated with the module progression and the module item.
file_id	bigint	Key to the file associated with the module item.
module_id	bigint	Parent module for this module progression and module item.
module_item_id	bigint	Item that the user has not completed.
module_progression_id	bigint	Module progression referenced by the completion requirement.
quiz_id	bigint	Key to the quiz associated with the module item.
user_id	bigint	Key to the user associated with the module progression and the module item.
wiki_id	bigint	Key to the wiki associated with the module progression and the module item.
wiki_page_id	bigint	Key to the wiki page associated with the module item.
min_score	double precision	For min_score type requirements, the score that must be attained for completion.

Name	Type	Description
score	double precision	For min_score type requirements, the score that the user has currently achieved.

module_progression_fact

Table containing measures related to modules_progression.

Type: fact

Columns

Name	Type	Description
module_progression_id	bigint	Unique surrogate ID for the module progression.
account_id	bigint	Foreign key to the account the module belongs to.
course_id	bigint	Foreign key to the course associated with this module.
enrollment_term_id	bigint	Foreign key to the enrollment_term associated with the module course.
module_id	bigint	Parent module for this module progression.
user_id	bigint	User being tracked in the module progression.
wiki_id	bigint	Foreign key to the wiki associated with the module course.

pseudonym_fact

Type: fact

Columns

Name	Type	Description
pseudonym_id	bigint	Foreign key to pseudonym dimension table
user_id	bigint	Foreign key to user associated with this pseudonym
account_id	bigint	Foreign key to account associated with this pseudonym
login_count	int	Number of times a user has logged in with this pseudonym
failed_login_count	int	Number of times failed login attempt to this pseudonym

quiz_fact

Measures for quiz.

Type: fact

Columns

Name	Type	Description

Name	Type	Description
quiz_id	bigint	Foreign key to quiz dimension table.
points_possible	double precision	Total point value given to the quiz.
time_limit	int	Time limit, in minutes, to complete the quiz. Set to -1 for no time limit. Defaults to -1.
allowed_attempts	int	Number of attempts allowed to complete the quiz. Set to -1 for unlimited attempts. Defaults to -1.
unpublished_question_count	int	Number of questions in the current unpublished version of the quiz.
question_count	int	Number of questions in the last published version of the quiz
course_id	bigint	Foreign key to the course the quiz belongs to.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
course_account_id	bigint	Foreign key to the account associated with the course associated with this quiz.
enrollment_term_id	bigint	Foreign key to enrollment term the quiz belongs to.

quiz_question_answer_fact

Measures for answers related to a quiz question.

Type: fact

Columns

Name	Type	Description
quiz_question_answer_id	bigint	Foreign key to the quiz question answer dimension table. As with all surrogate keys in Canvas Data, there is no guarantee of stability. That said, this key is particularly unstable and will likely change from dump to dump even if there are no data change.
quiz_question_id	bigint	Foreign key to the quiz question dimension table.
quiz_question_group_id	bigint	Foreign key to the quiz group dimension table.
quiz_id	bigint	Foreign key to the quiz dimension table.
assessment_question_id	bigint	Foreign key to the assessment question dimension table (to be made available in later releases).
course_id	bigint	Foreign key to the course this group's quiz belongs to.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
course_account_id	bigint	Foreign key to the account of the course this group belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course this group belongs to.
weight	double precision	Integer value to determine correctness of the answer. Incorrect answers should be 0, correct answers should be non-negative.
exact	double precision	(Used in 'numerical_question' with answer type 'exact_answer', set to 'NULL' otherwise) Value the answer must be equal to.
margin	double precision	(Used in 'numerical_question' with answer type 'exact_answer', set to 'NULL' otherwise) Margin of error allowed for a student's answer.

Name	Type	Description
starting_range	double precision	(Used in 'numerical_question' with answer type 'range_answer', set to 'NULL' otherwise) Start of the allowed range (inclusive).
ending_range	double precision	(Used in 'numerical_question' with answer type 'range_answer', set to 'NULL' otherwise) End of the allowed range (inclusive).

quiz_question_fact

Measures of a question associated with a quiz.

Type: fact

Columns

Name	Type	Description
quiz_question_id	bigint	Foreign key to the quiz question dimension table.
quiz_id	bigint	Foreign key to the quiz dimension table.
quiz_question_group_id	bigint	Foreign key to the quiz group dimension table.
assessment_question_id	bigint	Foreign key to the assessment question dimension table (to be made available in later releases).
course_id	bigint	Foreign key to the course this group's quiz belongs to.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
course_account_id	bigint	Foreign key to the account of the course this group belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course this group belongs to.
points_possible	double precision	Maximum number of points that can be awarded for answering the question correctly.

quiz_question_group_fact

Measures related to quiz groups.

Type: fact

Columns

Name	Type	Description
quiz_question_group_id	bigint	Foreign key to quiz group.
pick_count	int	Number of questions picked from the group for the quiz the group is associated with.
question_points	double precision	Number of points to assign per question in the group.
quiz_id	bigint	Foreign key to quiz dimension.
course_id	bigint	Foreign key to the course this group's quiz belongs to.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
course_account_id	bigint	Foreign key to the account of the course this group belongs to.

Name	Type	Description
enrollment_term_id	bigint	Foreign key to the enrollment term of the course this group belongs to.

quiz_submission_fact

Measures for the last submitted quiz

Type: fact

Columns

Name	Type	Description
score	double precision	Denotes the score for this submission. Its value would be NULL when they are in the 'preview', 'untaken' OR 'settings_only' workflow states (since it is associated with quiz moderation events). Or its value should not be NULL when workflow state is either 'complete' or 'pending_review'. It defaults to NULL.
kept_score	double precision	For quizzes that allow multiple attempts, this is the actual score that will be associated with the user for this quiz. This score depends on the scoring policy we have for the submission in the quiz submission dimension table, the workflow state being 'completed' or 'pending_review' and the allowed attempts to be greater than 1. Its value can be NULL when not all these required conditions are met.
date	timestamp	Contains the same value as 'finished_at'. Provided to support backward compatibility with the existing table in production.
course_id	bigint	Foreign key to the course this submission belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course this submission belongs to.
course_account_id	bigint	Foreign key to the account of the course this submission belongs to.
quiz_id	bigint	ID of the quiz the quiz submission represents. Foreign key to the quiz dimension table.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
user_id	bigint	ID of the user (who is a student) who made the submission. Foreign key to the user dimension table.
submission_id	bigint	ID to the submission the quiz submission represents. Foreign key to the quiz submission dimension table.
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table.
quiz_submission_id	bigint	Foreign key to the quiz submission dimension table.
quiz_points_possible	double precision	Maximum points that can be scored in this quiz.
score_before_regrade	double precision	Original score of the quiz submission prior to any re-grading. It's NULL if the submission has never been regraded. Defaults to NULL.
fudge_points	double precision	Number of points the quiz submission's score was fudged (changed) by. Values can be negative or positive. Defaults to 0.
total_attempts	int	Denotes the total number of attempts made by the student for the quiz. Is valid only if the quiz allows multiple attempts.

Name	Type	Description
extra_attempts	int	Number of times the student was allowed to re-take the quiz over the multiple-attempt limit.
extra_time	int	Amount of extra time allowed for the quiz submission, in minutes.
time_taken	int	Time taken, in seconds, to finish the quiz.

quiz_submission_historical_fact

Measures for the all submitted quizzes

Type: fact

Columns

Name	Type	Description
score	double precision	Denotes the score for this submission. Its value would be NULL when they are in the 'preview', 'untaken' OR 'settings_only' workflow states (since it is associated with quiz moderation events). Or its value should not be NULL when workflow state is either 'complete' or 'pending_review'. It defaults to NULL.
kept_score	double precision	For quizzes that allow multiple attempts, this is the actual score that will be associated with the user for this quiz. This score depends on the scoring policy we have for the submission in the quiz submission dimension table, the workflow state being 'completed' or 'pending_review' and the allowed attempts to be greater than 1. Its value can be NULL when not all these required conditions are met.
date	timestamp	Contains the same value as 'finished_at'. Provided to support backward compatibility with the existing table in production.
course_id	bigint	Foreign key to the course this submission belongs to.
enrollment_term_id	bigint	Foreign key to the enrollment term of the course this submission belongs to.
course_account_id	bigint	Foreign key to the account of the course this submission belongs to.
quiz_id	bigint	ID of the quiz the quiz submission represents. Foreign key to the quiz dimension table.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
user_id	bigint	ID of the user (who is a student) who made the submission. Foreign key to the user dimension table.
submission_id	bigint	ID to the submission the quiz submission represents. Foreign key to the quiz submission dimension table.
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table.
quiz_submission_historical_id	bigint	Foreign key to the quiz submission dimension table.
quiz_points_possible	double precision	Maximum points that can be scored in this quiz.
score_before_regrade	double precision	Original score of the quiz submission prior to any re-grading. It's NULL if the submission has never been regraded. Defaults to NULL.
fudge_points	double precision	Number of points the quiz submission's score was fudged (changed) by. Values can be negative or positive. Defaults to 0.

Name	Type	Description
total_attempts	int	Denotes the total number of attempts made by the student for the quiz. Is valid only if the quiz allows multiple attempts.
extra_attempts	int	Number of times the student was allowed to re-take the quiz over the multiple-attempt limit.
extra_time	int	Amount of extra time allowed for the quiz submission, in minutes.
time_taken	int	Time taken, in seconds, to finish the quiz.

submission_comment_fact

Table contains measures related to the submission comments feature in Canvas.

Type: fact

Columns

Name	Type	Description
submission_comment_id	bigint	Foreign key to the submission comment dimension related to the comment
submission_id	bigint	Foreign key to the submission dimension related to the comment
recipient_id	bigint	[Deprecated] No longer used in Canvas, will always be NULL.
author_id	bigint	Foreign key to the user dimension for the author of the comment
assignment_id	bigint	Foreign key to assignment dimension
course_id	bigint	Foreign key to course dimension of course associated with the assignment.
enrollment_term_id	bigint	Foreign Key to enrollment term table
course_account_id	bigint	Foreign key to the account dimension of the account associated with the course associated with the assignment
message_size_bytes	int	The message size in bytes.
message_character_count	int	The message size in characters.
message_word_count	int	The message size in words using space and common punctuation as word breaks.
message_line_count	int	The number of lines in a message.

submission_fact

Type: fact

Columns

Name	Type	Description
submission_id	bigint	Foreign key to submission dimension
assignment_id	bigint	Foreign key to assignment dimension
course_id	bigint	Foreign key to course dimension of course associated with the assignment.
enrollment_term_id	bigint	Foreign Key to enrollment term table

Name	Type	Description
user_id	bigint	Foreign key to user dimension of user who submitted the assignment.
grader_id	bigint	Foreign key to the user dimension of user who graded the assignment.
course_account_id	bigint	[Deprecated] No longer used in Canvas, will always be NULL.
enrollment_rollup_id	bigint	Foreign key to the enrollment roll-up dimension table.
score	double precision	Numeric grade given to the submission.
published_score	double precision	Valid only for a graded submission. It reflects the numerical value of the actual score. Referring to our previous example for 'submission_dim.published_grade', let's take two submissions, one for an assignment with a scoring method of 'points' and the other for an assignment with a scoring method of 'letter grade'. If the published grade is '4' out of '5' and 'B' for them, respectively, then they should both have a score of '4' out of '5'. And their 'published_score' values will be identical, '4.0'. Defaults to 'NULL'.
what_if_score	double precision	Valid only if the student ever entered a 'What If' score for an assignment in the Canvas UI. Only the most recent score entered by the student is stored here. Any time a new score is entered, the existing one is overwritten. Defaults to 'NULL'.
submission_comments_count	int	Reflects the total number of comments on the submission by anyone/everyone, excluding comments that are flagged as 'hidden'.
account_id	bigint	Foreign key to the account the submission belongs to.
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
group_id	bigint	Foreign key to the group_dim table.
quiz_id	bigint	Foreign key to the quiz the quiz submission associated with this submission represents.
quiz_submission_id	bigint	Foreign key to the quiz_submission_dim table.
wiki_id	bigint	Foreign key to the wiki_dim table.

submission_file_fact

A junction table that associates files and submissions

Type: fact

Columns

Name	Type	Description
submission_file_id	bigint	Unique surrogate key for the file-submission association
file_id	bigint	Foreign key to the file in this association
submission_id	bigint	Foreign key to the submission in this association
assignment_id	bigint	Foreign key to the assignment the submission is associated with
user_id	bigint	Foreign key to the user who uploaded this file
grader_id	bigint	Foreign key to the user who graded the submission in this assocation
course_id	bigint	Foreign key to course associated with the submission.
enrollment_term_id	bigint	Foreign Key to enrollment term associated with the submission's course

wiki_fact

Measures for wikis.

Type: fact

Columns

Name	Type	Description
wiki_id	bigint	Foreign key to the wiki dimension.
parent_course_id	bigint	Foreign key to the courses table if the wiki is associated with a Course. Otherwise this field is set to NULL.
parent_group_id	bigint	Foreign key to the groups table if the wiki is associated with a Group. Otherwise this field is set to NULL.
parent_course_account_id	bigint	Foreign key to the account dimension for the account associated with the wiki's course. If the wiki is not associated to a Course, this field is set to NULL.
parent_group_account_id	bigint	Foreign key to the account dimension for the account associated with the wiki's group. If the wiki is not associated to a Group, this field is set to NULL.
account_id	bigint	Foreign key to the accounts table that this wiki belongs to. Helpful for directly finding the account associated with the wiki, irrespective of whether it belongs to a Course or a Group.
root_account_id	bigint	Root account Id of the account the wiki belongs to. Foreign key to the accounts table.
enrollment_term_id	bigint	Foreign key to the enrollment term table of the course this wiki is associated with. Otherwise this is set to NULL.
group_category_id	bigint	(Not implemented) Foreign key to the group categories table of the group this wiki is associated with. Otherwise this is set to NULL.

wiki_page_fact

Measures for wiki pages.

Type: fact

Columns

Name	Type	Description
wiki_page_id	bigint	Foreign key to the wiki pages dimension.
wiki_id	bigint	Foreign key to the wikis dimension.
parent_course_id	bigint	Foreign key to the courses table if the wiki that owns the wiki page is associated with a Course. Otherwise this field is set to NULL.
parent_group_id	bigint	Foreign key to the groups table if the wiki that owns the wiki page is associated with a Group. Otherwise this field is set to NULL.
parent_course_account_id	bigint	Foreign key to the account dimension for the account associated with the wiki page's course. If the wiki page is not associated to a Course, this field is set to NULL.

Name	Type	Description
parent_group_account_id	bigint	Foreign key to the account dimension for the account associated with the wiki page's group. If the wiki page is not associated to a Group, this field is set to NULL.
user_id	bigint	Foreign key to the user table.
account_id	bigint	Foreign key to the accounts table that this wiki page belongs to. Helpful for directly finding the account associated with the wiki page, irrespective of whether it belongs to a Course or a Group.
root_account_id	bigint	Root account Id of the account the wiki belongs to. Foreign key to the accounts table.
enrollment_term_id	bigint	Foreign key to the enrollment term table of the course this wiki page is associated with. Otherwise this is set to NULL.
group_category_id	bigint	(Not implemented) Foreign key to the group categories table of the group this wiki page is associated with. Otherwise this is set to NULL.
wiki_page_comments_count	int	[Deprecated] No longer used in Canvas, will always be NULL.
view_count	int	Number of views per wiki page.

account_dim

An account object in the Canvas system. Accounts are most often used to represent a hierarchy of colleges, schools, departments, campuses, etc.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for an account
canvas_id	bigint	Primary key for this entry in the Canvas accounts table
name	varchar	Name of the account
depth	int	Depth of the account in the hierarchy. The root node is at 0.
workflow_state	varchar	Workflow status indicating that account is [deleted] or [active]
parent_account	varchar	Name of this account's parent account. This field will be NULL for the root account.
parent_account_id	bigint	Id of this account's parent account. This field will be NULL for the root account.
grandparent_account	varchar	Name of this account's grand parent account. This field will be NULL for the root account and all accounts at level 1.
grandparent_account_id	bigint	Id of this account's grand parent account. This field will be NULL for the root account and all subaccounts at level 1.
root_account	varchar	Name of the root account associated with this account.
root_account_id	bigint	Id of the root account associated with this account.
subaccount1	varchar	Name of this account's parent at subaccount level 1. If this account is a level 1 account, this will be the name of this account.
subaccount1_id	bigint	Id of this account's parent at subaccount level 1. If this account is a level 1 account, this will be the id of this account.

Name	Type	Description
subaccount2	varchar	Name of this account's parent at subaccount level 2. If this account is a level 2 account, subaccount2 will be the name of this account.
subaccount2_id	bigint	Id of this account's parent at subaccount level 2. If this account is a level 2 account, subaccount2_id will be the id of this account.
subaccount3	varchar	Name of this account's parent at subaccount level 3. If this account is a level 3 account, subaccount3 will be the name of this account.
subaccount3_id	bigint	Id of this account's parent at subaccount level 3. If this account is a level 3 account, subaccount3_id will be the id of this account.
subaccount4	varchar	Name of this account's parent at subaccount level 4. If this account is a level 4 account, subaccount4 will be the name of this account.
subaccount4_id	bigint	Id of this account's parent at subaccount level 4. If this account is a level 4 account, subaccount4_id will be the id of this account.
subaccount5	varchar	Name of this account's parent at subaccount level 5. If this account is a level 5 account, subaccount5 will be the name of this account.
subaccount5_id	bigint	Id of this account's parent at subaccount level 5. If this account is a level 5 account, subaccount5_id will be the id of this account.
subaccount6	varchar	Name of this account's parent at subaccount level 6. If this account is a level 6 account, subaccount6 will be the name of this account.
subaccount6_id	bigint	Id of this account's parent at subaccount level 6. If this account is a level 6 account, subaccount6_id will be the id of this account.
subaccount7	varchar	Name of this account's parent at subaccount level 7. If this account is a level 7 account, subaccount7 will be the name of this account.
subaccount7_id	bigint	Id of this account's parent at subaccount level 7. If this account is a level 7 account, subaccount7_id will be the id of this account.
subaccount8	varchar	Name of this account's parent at subaccount level 8. If this account is a level 8 account, subaccount8 will be the name of this account.
subaccount8_id	bigint	Id of this account's parent at subaccount level 8. If this account is a level 8 account, subaccount8_id will be the id of this account.
subaccount9	varchar	Name of this account's parent at subaccount level 9. If this account is a level 9 account, subaccount9 will be the name of this account.
subaccount9_id	bigint	Id of this account's parent at subaccount level 9. If this account is a level 9 account, subaccount9_id will be the id of this account.
subaccount10	varchar	Name of this account's parent at subaccount level 10. If this account is a level 10 account, subaccount10 will be the name of this account.
subaccount10_id	bigint	Id of this account's parent at subaccount level 10. If this account is a level 10 account, subaccount10_id will be the id of this account.
subaccount11	varchar	Name of this account's parent at subaccount level 11. If this account is a level 11 account, subaccount11 will be the name of this account.
subaccount11_id	bigint	Id of this account's parent at subaccount level 11. If this account is a level 11 account, subaccount11_id will be the id of this account.

Name	Type	Description
subaccount12	varchar	Name of this account's parent at subaccount level 12. If this account is a level 12 account, subaccount12 will be the name of this account.
subaccount12_id	bigint	Id of this account's parent at subaccount level 12. If this account is a level 12 account, subaccount12_id will be the id of this account.
subaccount13	varchar	Name of this account's parent at subaccount level 13. If this account is a level 13 account, subaccount13 will be the name of this account.
subaccount13_id	bigint	Id of this account's parent at subaccount level 13. If this account is a level 13 account, subaccount13_id will be the id of this account.
subaccount14	varchar	Name of this account's parent at subaccount level 14. If this account is a level 14 account, subaccount14 will be the name of this account.
subaccount14_id	bigint	Id of this account's parent at subaccount level 14. If this account is a level 14 account, subaccount14_id will be the id of this account.
subaccount15	varchar	Name of this account's parent at subaccount level 15. If this account is a level 15 account, subaccount15 will be the name of this account.
subaccount15_id	bigint	Id of this account's parent at subaccount level 15. If this account is a level 15 account, subaccount15_id will be the id of this account.
sis_source_id	varchar	Correlated id for the record for this course in the SIS system (assuming SIS integration is configured)

assignment_dim

Attributes for for assignments. There is one record in this table for each assignment. Individual submissions of the assignment are in the submission_dim and submission_fact tables.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the assignment.
canvas_id	bigint	Primary key for this record in the Canvas assignments table.
course_id	bigint	Foreign key to the course associated with this assignment
title	varchar	Title of the assignment
description	text	Long description of the assignment
due_at	timestamp	Timestamp for when the assignment is due
unlock_at	timestamp	Timestamp for when the assignment is unlocked or visible to the user
lock_at	timestamp	Timestamp for when the assignment is locked
points_possible	double precision	Total points possible for the assignment
grading_type	varchar	Describes how the assignment will be graded (gpa_scale, pass_fail, percent, points, not_graded, letter_grade)

Name	Type	Description
submission_types	varchar	Comma separated list of valid methods for submitting the assignment (online_url, media_recording, online_upload, online_quiz, external_tool, online_text_entry, online_file_upload)
workflow_state	varchar	Current workflow state of the assignment. Possible values are unpublished, published and deleted
created_at	timestamp	Timestamp of the first time the assignment was entered into the system
updated_at	timestamp	Timestamp of the last time the assignment was updated
peer_review_count	int	The number of pears to assign for review if using algorithmic assignment
peer_reviews_due_at	timestamp	Timestamp for when peer reviews should be completed
peer_reviews_assigned	boolean	True if all peer reviews have been assigned
peer_reviews	boolean	True if peer reviews are enabled for this assignment
automatic_peer_reviews	boolean	True if peer reviews are assigned algorithmically (vs. letting the instructor make manual assignments)
all_day	boolean	True if A specific time for when the assignment is due was not given. The effective due time will be 11:59pm.
all_day_date	date	The date version of the due date if the all_day flag is true.
could_be_locked	boolean	True if the assignment is under a module that can be locked
grade_group_students_individually	boolean	True if students who submit work as a group will each receive individual grades (vs one grade that is copied to all group members)
anonymous_peer_reviews	boolean	(currently unimplemented, do not use)
muted	boolean	[Deprecated] No longer used in Canvas, will always be NULL.
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
position	integer	The sorting order of the assignment in the group
visibility	enum	User sets that can view the assignment. Possible values ('everyone', 'only_visible_to_overrides')
external_tool_id	bigint	Foreign key to the external tool activation if this assignment uses an external tool for submissions.

assignment_group_dim

Attributes for assignment_groups.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the assignment group.
canvas_id	bigint	Primary key for this record in the Canvas assignment_groups table.
course_id	bigint	Foreign key to the course to which the assignment group belongs to.

Name	Type	Description
name	varchar	Name of the assignment group. Defaults to 'Assignments' if no name is provided during group creation.
default_assignment_name	varchar	Default name assigned to the assignments in the assignment group if no name is assigned to them during their creation. Also, it is the singularized version of the assignment group name by default (if it's in English).
workflow_state	varchar	Current workflow state of the assignment groups. Possible values are 'available' and 'deleted'.
position	integer	Position of the assignment group in the assignment index page. It determines where it should be displayed on the page and where it should be displayed in a new course if the course is cloned.
created_at	timestamp	Date/Time when the assignment group was created.
updated_at	timestamp	Date/Time when the assignment group was last updated.

assignment_group_rule_dim

Rules associated with an assignment group.

Type: dimension

Columns

Name	Type	Description
assignment_group_id	bigint	Foreign key to the assignment group dimension table.
drop_lowest	integer	Number of lowest scored assignments which can be dropped from the group. Set to '0' when none should be dropped. Defauts to '0'.
drop_highest	integer	Number of highest scored assignments which can be dropped form the group. Set to '0' when none should be dropped. Defauts to '0'.

assignment_group_score_dim

Attributes for Assignment Group scores. You can think of a score as synonymous with a cell inside the gradebook.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
assignment_group_id	bigint	Foreign key to the assignment group table.
enrollment_id	bigint	Foreign key to the Enrollment table.
created_at	timestamp	Timestamp when record was created.

Name	Type	Description
updated_at	timestamp	Timestamp when record was last updated.
workflow_state	enum	Workflow state for the score. Possible values are 'active', 'deleted'

assignment_override_dim

Attributes for assignment_override. There may be many records in this table for each assignment. Use the data in this table to calculate actual due, all_day, lock and unlock dates/times.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the assignment override.
canvas_id	bigint	Primary key for this record in the Canvas assignments table.
assignment_id	bigint	Foreign key to the assignment the override is associated with. May be empty.
course_section_id	bigint	Foreign key to the course_section.
group_id	bigint	Foreign key to the group.
quiz_id	bigint	Foreign key to the quiz the override is associated with.
all_day	enum	Indicates if the all_day field overrides the original assignment.all_day field for this group of users. Possible values are 'new_all_day' and 'same_all_day'.
all_day_date	date	The new date version of the due date if the all_day flag is true.
assignment_version	int	The version of the assignment this override is applied too.
created_at	timestamp	Timestamp of when the assignment_override was created.
due_at	timestamp	The new due_at date-time for this group of users.
due_at_overridden	enum	Indicates if the due_at field overrides the original assignment.due_at field for this group of users. Possible values are 'new_due_at' and 'same_due_at'.
lock_at	timestamp	The new lock_at date-time for this group of users.
lock_at_overridden	enum	Indicates if the lock_at field overrides the original assignment.lock_at field for this group of users. Possible values are 'new_lock_at' and 'same_lock_at'.
set_type	enum	Used in conjunction with set_id, this field tells us what type of foreign relation is used. Possible values are 'course_section', 'group' and 'adhoc'.
title	text	The title for this assignment_override.
unlock_at	timestamp	The new unlock_at date-time for this group of users.
unlock_at_overridden	enum	Indicates if the unlock_at field overrides the original assignment.unlock_at field for this group of users. Possible values are 'new_unlock_at' and 'same_unlock_at'.
updated_at	timestamp	Timestamp of when the assignment_override was last updated.
quiz_version	int	The version of the quiz this override is applied too.
workflow_state	enum	Gives the workflow state of this record. Possible values are 'active' and 'deleted'.

assignment_override_user_dim

Table contains measures related to adhoc users for whom an assignment override exists.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the assignment_override_student.
canvas_id	bigint	The ID of the user in the adhoc group table.
assignment_id	bigint	Foreign key to the assignment the override is associated with. May be empty.
assignment_override_id	bigint	Foreign key to the assignment override dimension
quiz_id	bigint	Foreign key to the quiz the override is associated with. May be empty.
user_id	bigint	Foreign key to the user.
created_at	timestamp	Timestamp of when the assignment_override_student was created.
updated_at	timestamp	Timestamp of when the assignment_override_student was last updated.

assignment_rule_dim

Rules associated with an assignment.

Type: dimension

Columns

Name	Type	Description
assignment_id	bigint	ID of the assignment which can never be dropped from the group.
drop_rule	varchar	Denotes if the assignment can be dropped from the assignment group if the group allows dropping assignments based on certain rules. Is set to 'never_drop' if the assignment is exempted from dropping, else set to 'can_be_dropped'.

catalog_applicant_dim

Attributes for catalog applicants

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog applicant
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this applicant belongs to

Name	Type	Description
catalog_product_id	bigint	Foreign key to the catalog product dim. Refers to the course or program associated with the applicant
user_id	bigint	Foreign key to the user dim. Refers to the catalog applicant
notified_of_opening_at	timestamp	If present, indicates when the applicant was notified of an opening in the course or program
activated	boolean	Indicates whether the user's catalog account has been activated. If true, the user's account has been activated; otherwise, the user's account has not been activated
status	varchar	Indicates the applicant's enrollment status for the course or program. Possible values are "waitlist", "accepted", "declined", "expired", "error"
created_at	timestamp	Time when the applicant was created
updated_at	timestamp	Time when the applicant was last updated

catalog_dim

Attributes for catalogs in Canvas Catalog

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the catalog
parent_id	bigint	Self-referencing key that points to the parent catalog for this catalog. Null if this catalog has no parent
name	varchar	Name of the catalog
currency	varchar	Type of currency used in the catalog
country	varchar	Country used in this catalog
time_zone	varchar	Timezone used in this catalog
created_at	timestamp	When the catalog was created
updated_at	timestamp	When the catalog was last updated

catalog_enrollment_dim

Attributes for an enrollment in a Canvas Catalog program or course

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog enrollment
catalog_product_id	bigint	Foreign key to the catalog product dim. Refers to the course or program associated with the enrollment
user_id	bigint	Foreign key to the user dim. Refers to the user associated with this enrollment

Name	Type	Description
root_program_id	bigint	Foreign key to the catalog product dim. Refers to the root program associated with this enrollment
status	varchar	The status of the enrollment. One of either "active" or "dropped"
requirements_completed_at	timestamp	Time when the user completed all requirements for the course or program. Null if the requirements have not yet been met
ends_at	timestamp	Time by which the user must complete the course or program requirements. Null if there is no required end date
created_at	timestamp	Time when the enrollment record was created
updated_at	timestamp	Time when the enrollment record was last updated

catalog_order_dim

Attributes for Catalog orders

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog order
catalog_id	bigint	Foreign key to the catalog dim
user_id	bigint	Foreign key to the user dim. Refers to the user associated with this order
full_id	varchar	The id of the order prepended with the Catalog-specified order id prefix, if provided by customers. If not prefixed, full_id will match the order id
purchased_at	timestamp	When the catalog order was fulfilled
created_at	timestamp	When the catalog order was created
updated_at	timestamp	When the catalog order was last updated
currency	varchar	Type of currency used in the catalog order

catalog_order_item_dim

Attributes for Catalog order items

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog order item
catalog_order_id	bigint	Foreign key to the catalog order dim
catalog_product_id	bigint	Foreign key to the catalog product dim. Refers to the course or program associated with this order item

Name	Type	Description
catalog_promotion_id	bigint	Foreign key to the catalog promotion dim
created_at	timestamp	When the catalog order item was created
updated_at	timestamp	When the catalog order item was last updated

catalog_payment_dim

Attributes for Catalog payments

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog payment
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this payment belongs to
catalog_order_id	bigint	Foreign key to the catalog order dim
status	varchar	The payment status. Can be one of "success", "pending", or "error"
reference_id	varchar	The transaction reference ID from the payment merchant
created_at	timestamp	Time when the payment was created
updated_at	timestamp	Time when the payment was updated

catalog_product_dim

Attributes for products in Canvas Catalog. A product can be either a course or a program listing

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog product
catalog_id	bigint	Foreign key to the catalog dim
start_date	timestamp	The start date for the course or program
end_date	timestamp	The end date for the course or program
course_id	bigint	Foreign key to the course dim if this product is a course
product_type	varchar	Can be either "Program" or "Course"
title	varchar	The title of the course or program listing
visibility	varchar	Can be one of "listed", "unlisted", or "hidden"
enrollment_open	boolean	Whether the course or program is open for enrollment
has_waitlist	boolean	Whether the course or program has a waitlist
created_at	timestamp	The date when the product was created
updated_at	timestamp	The date when the product was last updated

catalog_product_tag_dim

Attributes for Catalog product tags

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog product tag
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog that this product tag belongs to
catalog_product_id	bigint	Foreign key to the associated course or program from the catalog product dim
catalog_tag_id	bigint	Foreign key to the associated tag from the catalog tag dim
created_at	timestamp	Time when this product tag was created
updated_at	timestamp	Time when this product tag was updated

catalog_promotion_dim

Attributes for Catalog promotions

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog promotion
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog this promotion belongs to
catalog_product_id	bigint	Foreign key to the associated course or program from the catalog product dim. If null, this promotion is available for all courses or programs in the catalog
discount_type	varchar	The type of discount. Can be either "flat" or "percent"
code	varchar	The code used to redeem the promotion
name	varchar	The name of the promotion
usage_type	varchar	Indicates whether the promotion is "unlimited" or "once-per-user"
start_date	timestamp	The time the promotion begins
end_date	timestamp	The time the promotion ends
active	boolean	Whether or not the promotion is active
created_at	timestamp	Time when the promotion was created
updated_at	timestamp	Time when the promotion was updated

catalog_tag_dim

Attributes for Catalog tags

type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog tag
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog that this tag belongs to
name	varchar	The catalog tag text
created_at	timestamp	Time when the tag was created
updated_at	timestamp	Time when the tag was updated

catalog_user_registration_dim

Attributes for user registration in a Canvas Catalog. See catalog_enrollment for data about programs and courses the user is enrolled in

type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the catalog user registration
catalog_id	bigint	Foreign key to the catalog dim. Refers to the catalog that this registration belongs to
user_id	bigint	Foreign key to the user dim. Refers to the registered user
created_at	timestamp	Time when the user registration record was created
updated_at	timestamp	Time when the user registration record was last updated

communication_channel_dim

Attributes for communication channel.

type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the communication channel.
canvas_id	bigint	Primary key for this communication channel in the communication_channel table.
user_id	bigint	Foreign key to the user that owns this communication channel.
address	varchar	Address, or path, of the communication channel. Set to 'NULL' for push notifications.
type	varchar	Denotes the type of the path. Possible values are 'email', 'facebook', 'push' (device push notifications), 'sms' and 'twitter'. Defaults to 'email'.
position	integer	Position of this communication channel relative to the user's other channels when they are ordered.
workflow_state	varchar	Current state of the communication channel. Possible values are 'unconfirmed', 'active', and 'retired'.
created_at	timestamp	Date/Time when the communication channel was created.

Name	Type	Description
updated_at	timestamp	Date/Time when the communication channel was last updated.

conference_dim

Attributes for conferences

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the conference
canvas_id	bigint	Primary key for this conference in the web_conferences table
title	varchar	The title of the conference
conference_type	varchar	The type of the conference (e.g. 'AdobeConnect', 'BigBlueButton')
group_id	bigint	Foreign key to the group if this conference was associated with a group
course_id	bigint	Foreign key to the course if this conference was associated with a course
account_id	bigint	Foreign key to the account if this conference was associated with an account
start_at	timestamp	The time at which this conference was scheduled to begin
started_at	timestamp	The time at which this conference actually started at, null if it hasn't started
end_at	timestamp	The time at which this conference was scheduled to end
ended_at	timestamp	The time at which this conference actually ended, null if it hasn't ended
created_at	timestamp	
updated_at	timestamp	

conference_participant_dim

Attributes for conference participants

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for a conference participant
user_id	bigint	Foreign key to the user who is the conference participant
conference_id	bigint	Foreign key to the conference
participation_type	varchar	Type of participation, ('invitee' or 'attendee')
created_at	timestamp	
updated_at	timestamp	

conversation_dim

Attributes for a conversation

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the conversation.
canvas_id	bigint	Original primary key for conversation in the Canvas table
has_attachments	boolean	True if the conversation has attachments
has_media_objects	boolean	True if the conversation has media objects
subject	varchar	The subject of the conversation
course_id	bigint	The course that owns this conversation
group_id	bigint	The group that owns this conversation
account_id	bigint	The account this owns this conversation

conversation_message_dim

Attributes for a message in a conversation

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the message.
canvas_id	bigint	Original ID for canvas table.
conversation_id	bigint	Parent conversation for this message.
author_id	bigint	User id of the author of the message.
created_at	timestamp	Date and time this message was created.
generated	boolean	This attribute is true if the system generated this message (e.g. "John was added to this conversation")
has_attachments	boolean	True if the message has attachments.
has_media_objects	boolean	True if the message has media objects.
body	text	The content of the message.

course_dim

A course in the canvas system

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for a course
canvas_id	bigint	Primary key for this course in the canvas courses table.
root_account_id	bigint	The root account associated with this course.
account_id	bigint	The parent account for this course.
enrollment_term_id	bigint	Foreign key to enrollment term table
name	varchar	The friendly name of the course.
code	varchar	The code for the course (e.g. FA12 MATH 2000)
type	varchar	[Deprecated] No longer used in Canvas, will always be NULL.
created_at	timestamp	Timestamp when the course object was created in Canvas
start_at	timestamp	Timestamp for when the course starts.
conclude_at	timestamp	Timestamp for when the course finishes
publicly_visible	boolean	True if the course is publicly visible
sis_source_id	varchar	Correlated id for the record for this course in the SIS system (assuming SIS integration is configured)
workflow_state	varchar	Workflow status indicating the current state of the course, valid values are: completed (course has been hard concluded), created (course has been created, but not published), deleted (course has been deleted), available (course is published, and not hard concluded), claimed (course has been undeleted, and is not published).
wiki_id	bigint	Foreign key to the wiki_dim table.
syllabus_body	text	Content of the syllabus for this course.

course_score_dim

Attributes for course scores. You can think of a score as synonymous with a cell inside the gradebook.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
enrollment_id	bigint	Foreign key to the Enrollment table.
created_at	timestamp	Timestamp when record was created.
updated_at	timestamp	Timestamp when record was last updated.
workflow_state	enum	Workflow state for the score. Possible values are 'active', 'deleted'

course_section_dim

Attributes for a section of a course

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the course section.
canvas_id	bigint	Primary key for this record in the Canvas course_sections table.
name	varchar	Name of the section
course_id	bigint	Foreign key to the associated course
enrollment_term_id	bigint	Foreign key to the associated enrollment term
default_section	boolean	True if this is the default section
accepting_enrollments	boolean	True if this section is open for enrollment
can_manually_enroll	boolean	[Deprecated] No longer used in Canvas, will always be NULL.
start_at	timestamp	Section start date
end_at	timestamp	Section end date
created_at	timestamp	Timestamp for when this section was entered into the system.
updated_at	timestamp	Timestamp for when the last time the section was updated
workflow_state	varchar	Life-cycle state for section. (active, deleted)
restrict_enrollments_to_section_dates	boolean	True when "Users can only participate in the course between these dates" is checked
nonxlist_course_id	bigint	The course id for the original course if this course has been cross listed
sis_source_id	varchar	Id for the correlated record for the section in the SIS (assuming SIS integration has been properly configured)

course_ui_canvas_navigation_dim

Attributes for a Canvas navigation function

Type: dimension

Columns

Name	Type	Description
id	bigint	Primary key for navigational item
canvas_id	bigint	ID in Canvas system
name	varchar	Name of navigational item
default	varchar	(Default|NotDefault) - set to Default if this is one of the navigation items enabled in a course by default
original_position	varchar	Original position of this navigation item

course_ui_navigation_item_dim

Attributes for a navigation item

Type: dimension

Columns

Name	Type	Description
id	bigint	Primary key for navigational item
root_account_id	bigint	Foreign key to root account of the course
visible	varchar	(visible|hidden) Visible if this element is visible, hidden if hidden/not available in the navigation
position	int	Position in the navigation. NULL if hidden.

discussion_entry_dim

Attributes for discussion entries. Discussion entries are replies in a discussion topic.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the discussion entry.
canvas_id	bigint	Primary key for this record in the Canvas discussion_entries table
message	text	Full text of the entry's message
workflow_state	varchar	Workflow state for discussion message (values: deleted, active)
created_at	timestamp	Timestamp when the discussion entry was created.
updated_at	timestamp	Timestamp when the discussion entry was updated.
deleted_at	timestamp	Timestamp when the discussion entry was deleted.
depth	int	Reply depth for this entry

discussion_topic_dim

Attributes for discussion topics in Canvas. Discussion topics are logical discussion threads. They can have many discussion entries. They also have their own message text for the message that started the topic.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the discussion topic.
canvas_id	bigint	Primary key to the discussion_topics table in Canvas
title	varchar	Title of the discussion topic
message	text	Message text for the discussion topic.
type	varchar	Discussion topic type. Two types are default (blank) and announcement.

Name	Type	Description
workflow_state	varchar	Workflow state for this discussion topic. Valid states are unpublished, active, locked, deleted, and post_delayed
last_reply_at	timestamp	Timestamp of the last reply to this topic.
created_at	timestamp	Timestamp when the discussion topic was first saved in the system.
updated_at	timestamp	Timestamp when the discussion topic was last updated in the system.
delayed_post_at	timestamp	Timestamp when the discussion topic was/will be delay-posted
posted_at	timestamp	Timestamp when the discussion topic was posted
deleted_at	timestamp	Timestamp when the discussion topic was deleted.
discussion_type	varchar	Type of discussion topic: default(blank), side_comment, threaded. threaded indicates that replies are threaded where side_comment indicates that replies in the discussion are flat. See related Canvas Guide https://guides.instructure.com/m/4152/l/60423-how-do-i-create-a-threaded-discussion
pinned	boolean	True if the discussion topic has been pinned
locked	boolean	True if the discussion topic has been locked
course_id	bigint	Foreign key to the course dimension
group_id	bigint	Foreign key to the group dimension

enrollment_dim

An enrollment represents a user's association with a specific course and section

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the enrollment.
canvas_id	bigint	Primary key for this record in the Canvas enrollments table
root_account_id	bigint	Root account id associated with this enrollment
course_section_id	bigint	Foreign key to the course section for this enrollment
role_id	bigint	Foreign key to the role of the person enrolled in the course
type	varchar	Enrollment type: TaEnrollment, DesignerEnrollment, StudentEnrollment, TeacherEnrollment, StudentViewEnrollment, ObserverEnrollment
workflow_state	varchar	Workflow state for enrollment: active, completed, creation_pending, deleted, inactive, invited, rejected
created_at	timestamp	Timestamp for when this section was entered into the system.
updated_at	timestamp	Timestamp for when the last time the section was updated
start_at	timestamp	Enrollment start date
end_at	timestamp	Enrollment end date
completed_at	timestamp	Enrollment completed date
self_enrolled	boolean	Enrollment was created via self-enrollment

Name	Type	Description
sis_source_id	varchar	[Deprecated] No longer used in Canvas, will always be NULL.
course_id	bigint	Foreign key to course for this enrollment
user_id	bigint	Foreign key to user for the enrollment
last_activity_at	timestamp	Last time the enrolled user viewed content or took action in the enrolled course

enrollment_rollup_dim

Would be an empty table. Roll-up aggregating the roles held by the users in the courses they are associated with.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the user and the course.
user_id	bigint	Foreign key to the enrolled user.
course_id	bigint	Foreign key to the enrolled course.
enrollment_count	int	Total number of enrollments associated with the user in the course for his/her all roles under all base roles, duplicate or not.
role_count	int	Total number of unique roles associated with the user in the course.
base_role_count	int	Total number of unique base roles associated with the user in the course.
account_admin_role_count	int	Total number of 'AccountAdmin' roles associated with the user in the course.
teacher_enrollment_role_count	int	Total number of 'TeacherEnrollment' roles associated with the user in the course.
designer_enrollment_role_count	int	Total number of 'DesignerEnrollment' roles associated with the user in the course.
ta_enrollment_role_count	int	Total number of 'TaEnrollment' roles associated with the user in the course.
student_enrollment_role_count	int	Total number of 'StudentEnrollment' roles associated with the user in the course.
observer_enrollment_role_count	int	Total number of 'ObserverEnrollment' roles associated with the user in the course.
account_membership_role_count	int	Total number of 'AccountMembership' roles associated with the user in the course.
no_permissions_role_count	int	Total number of 'NoPermissions' roles associated with the user in the course.
account_admin_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
teacher_enrollment_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
designer_enrollment_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
ta_enrollment_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
student_enrollment_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
observer_enrollment_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
account_membership_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
no_permissions_enrollment_id	bigint	Enrollment ID if this a valid role for the user in the course, else NULL.
most_privileged_role	varchar	The most privileged role associated with the user in the course.
least_privileged_role	varchar	The least privileged role associated with the user in the course.

enrollment_term_dim

Enrollment term describes the term or semester associated with courses (e.g. Fall 2013)

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the enrollment term.
canvas_id	bigint	Primary key for this record in the Canvas enrollments table.
root_account_id	bigint	Foreign key to the root account for this enrollment term
name	varchar	Name of the enrollment term
date_start	timestamp	Term start date
date_end	timestamp	Term end date
sis_source_id	varchar	Correlated SIS id for this enrollment term (assuming SIS has been configured properly)

external_tool_activation_dim

Attributes for external tool (LTI) activations. Note that activations can happen on courses or accounts. If this activation is associated with a course then course_id course_account_id and enrollment_term_id will be populated. If this activation is associated with an account then only account_id will be populated.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for tool activations
canvas_id	bigint	Primary key for this record in the context_external_tools table in the Canvas database
course_id	bigint	Foreign key to the course if this tool was activated in a course
account_id	bigint	Foreign key to the account this tool was activated in if it was activated in an account
activation_target_type	varchar	The type of object the tool was activated in, (course or account)
url	varchar	The URL to where the tool may launch to
name	varchar	The name of tool activation as entered by the user
description	varchar	The description of the tool activation as entered by the user
workflow_state	varchar	Workflow state for activation (active, deleted)
privacy_level	varchar	Privacy setting for activation (name_only, email_only, anonymous, public)
created_at	timestamp	Timestamp when the activation was created
updated_at	timestamp	Timestamp when the activation was last updated
tool_id	varchar	The tool id received from the external tool. May be missing if the tool does not send an id.
selectable_all	boolean	true - tool is selectable in all scenarios. false - not selectable for assignment or module selection menu

file_dim

Attributes for files.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for this file.
canvas_id	bigint	Primary key for this file in the attachments table.
display_name	text	Name of this file.
account_id	bigint	Foreign key to the account this file belongs to.
assignment_id	bigint	Foreign key to the assignment this file belongs to.
conversation_message_id	bigint	Foreign key to the conversation message this file belongs to.
course_id	bigint	Foreign key to the course this file belongs to.
folder_id	bigint	Foreign key to the folder this file belongs to.
group_id	bigint	Foreign key to the group this file belongs to.
quiz_id	bigint	Foreign key to the quiz this file belongs to.
quiz_submission_id	bigint	Foreign key to the quiz submission this file belongs to.
replacement_file_id	bigint	ID of the overwriting file if this file is overwritten.
root_file_id	bigint	ID of the source file from which this file was copied and created. Set to 'NULL' when this is the only copy.
submission_id	bigint	Foreign key to the submission this file belongs to if the file's context was a submission or quiz submission. A file's context is an independent attribute from its relationship with a submission. Files have a many-to-many relationship with submissions in Canvas which requires a junction table to represent. See submission_file_fact for details on the junction table that links files to submissions.
uploader_id	bigint	Foreign key to the user who uploaded this file. Might contain users which are not in the user dimension table.
user_id	bigint	Foreign key to the user this file belongs to.
owner_entity_type	enum	Table this file is associated with. Possible values are 'account', 'assignment', 'conversation_message', 'course', 'group', 'quiz', 'quiz_submission', 'submission' and 'user'.
content_type	varchar	Contains the MIME type of this file.
md5	varchar	Contains the MD5 checksum of the contents of this file.
file_state	enum	Denotes the current state of this file. Possible values are 'available', 'broken', 'deleted', 'errored' and 'hidden'.
could_be_locked	enum	Dictates if the quiz can be locked or not. Possible values are 'allow_locking' and 'disallow_locking'.
locked	enum	Denotes the current lock status of this file. Possible values are 'is_locked' and 'is_not_locked'.
lock_at	timestamp	Date/Time when this file is to be locked.

Name	Type	Description
unlock_at	timestamp	Date/Time when this file is to unlocked.
viewed_at	timestamp	
		Date/Time when this file was last viewed.
created_at	timestamp	Date/Time when this file was created.
updated_at	timestamp	Date/Time when this file was last updated.
deleted_at	timestamp	Date/Time when this file was deleted.

grading_period_dim

Attributes for grading period. A Grading period is like a "term", essentially used for splitting up the grade book into "periods"

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate identifier for the grading period.
canvas_id	bigint	Primary key for the grading period.
grading_period_group_id	bigint	Surrogate ID to the grading period group table.
close_date	timestamp	Grades can only be changed before the close date of the grading period.
created_at	timestamp	Timestamp when record was created
end_date	timestamp	End date of the grading period.
start_date	timestamp	Start date of the grading period.
title	varchar	Title for the grading period.
updated_at	timestamp	Timestamp when record was last updated.
workflow_state	varchar	current workflow state. Possible values are 'active', 'deleted'

grading_period_group_dim

Attributes for grading period groups. Which are a group of grading periods.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate identifier for the grading period groups
canvas_id	bigint	Primary key for the grading period groups
course_id	bigint	Foreign key to the Course table.
account_id	bigint	Foreign key to the Account table.
created_at	timestamp	Timestamp when record was created.
title	varchar	Title for the grading period group.

Name	Type	Description
updated_at	timestamp	Timestamp when record was last updated.
workflow_state	varchar	Workflow state for the grading period group. Possible values are 'active', 'deleted'

grading_period_score_dim

Attributes for Grading Period scores. You can think of a score as synonymous with a cell inside the grade book.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate identifier for the score.
canvas_id	bigint	Primary key for the score.
enrollment_id	bigint	Foreign key to the Enrollment table.
grading_period_id	bigint	Foreign key to the grading period group table.
created_at	timestamp	Timestamp when record was created.
updated_at	timestamp	Timestamp when record was last updated.
workflow_state	enum	Workflow state for the score. Possible values are 'active', 'deleted'

group_dim

Attributes for groups in canvas. Groups contain two or more students enrolled in a particular course working on an assignment or project together.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the group.
canvas_id	bigint	Primary key to the groups table in canvas.
name	varchar	Name of the group.
description	text	Description of the group.
created_at	timestamp	Timestamp when the group was first saved in the system.
updated_at	timestamp	Timestamp when the group was last updated in the system.
deleted_at	timestamp	Timestamp when the group was deleted.
is_public	boolean	True if the group contents are accessible to public.
workflow_state	varchar	Workflow state for group.(values: deleted,active)
context_type	varchar	The context type to which the group belongs to. For example- Accounts, Courses etc.
category	text	Group description by the users.
join_level	varchar	Permissions required to join a group. For example, it can be invitation-only or auto.
default_view	varchar	Default view for groups is the feed.

Name	Type	Description
sis_source_id	bigint	Correlated id for the record for this group in the SIS system (assuming SIS integration is configured)
group_category_id	bigint	(Not implemented) Foreign key to group category dimension table.
account_id	bigint	Parent account for this group.
wiki_id	bigint	Foreign key to the wiki_dim table.

group_membership_dim

Attributes for groups_membership in canvas.

Type: dimension

Columns

Name	Type	Description
id	varchar	The ID of the membership object
canvas_id	varchar	The ID of the membership object as it appears in the db.
group_id	bigint	Foreign key to the group dimension for a particular group.
moderator	enum	Whether or not the user is a moderator of the group. Possible values are 'is_moderator' and 'not_moderator'.
workflow_state	enum	The current state of the membership. Current possible values are 'accepted', 'invited', 'requested', and 'deleted'
created_at	timestamp	Timestamp when the group membership was first saved in the system.
updated_at	timestamp	Timestamp when the group membership was last updated in the system.

learning_outcome_dim

Learning outcomes are measurable statements that express student knowledge or a student skill. This table contains dimensions for learning outcomes.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the learning outcome.
canvas_id	bigint	Primary key to the learning_outcomes table in canvas.
account_id	bigint	Foreign key to the account associated with this outcome.
course_id	bigint	Foreign key to the course associated with this outcome, if this outcome was created at the course level.
short_description	varchar	Title of the outcome.
description	text	Description of the outcome.

Name	Type	Description
workflow_state	varchar	Workflow status of the learning outcome. Possible values are 'active' and 'deleted'. Defaults to 'active'.
created_at	timestamp	Time when the outcome was created.
updated_at	timestamp	Time when the outcome was last updated.
vendor_guid	varchar	A custom GUID for the learning standard.
display_name	varchar	Optional friendly name for reporting.
calculation_method	text	The method used to calculate student score. Possible values are "decaying_average", "highest", "latest" and "n_mastery".
calculation_int	int	Defines the variable value used by the calculation_method. included only if calculation_method uses it.
outcome_import_id	bigint	Foreign key to the outcome import associated with this outcome, if this outcome was imported.

earning_outcome_group_dim

earning outcome groups organize outcomes hierarchically within a context, such as an account, course or the global context. This table contains dimensions for earning outcome groups.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the learning outcome group
canvas_id	bigint	Primary key for this record in the canvas learning_outcome_groups table
account_id	bigint	Foreign key to the account associated with this outcome group, if this outcome group was created at the account level.
course_id	bigint	Foreign key to the course associated with this outcome group, if this outcome group was created at the course level.
title	varchar	Title of the learning outcome group.
parent_group_id	bigint	ID associated with the parent of this group. Refers to a learning_outcome_group record.
root_group_id	bigint	ID associated with the root group in the group hierarchy. Refers to a learning_outcome_group record.
workflow_state	varchar	Workflow status of the learning outcome. Possible values are 'active' and 'deleted'. Defaults to 'active'.
description	text	Description of the learning outcome group.
created_at	timestamp	Time when the group was created.
updated_at	timestamp	Time when the group was last updated.
vendor_guid	varchar	A custom GUID for the learning standard.
outcome_import_id	bigint	Foreign key to the outcome import associated with this outcome group, if this group was imported.

earning_outcome_question_result_dim

ttributes for the results of answered questions which have been associated with a learning outcome

ype: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the question result
learning_outcome_result_id	bigint	Foreign key to the learning outcome result
learning_outcome_id	bigint	Foreign key to the learning outcome this record is associated with
assessment_question_id	bigint	Foreign key to the assessment question this record is associated with (assessment_questions to be included in a future release)
title	text	
created_at	timestamp	Time when question was created
updated_at	timestamp	Time when question was updated
assessed_at	timestamp	Time when answer was assessed
submitted_at	timestamp	Time when answer was submitted

earning_outcome_result_dim

earning outcome results are a student's mastery score on a given outcome. This table contains dimensions for learning outcome results.

ype: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the learning outcome result
canvas_id	bigint	Primary key for this record in the canvas learning_outcome_results table
account_id	bigint	Foreign key to the account associated with this outcome result, if this outcome result was created at the account level.
course_id	bigint	Foreign key to the course associated with this outcome result, if this outcome result was created at the course level.
assignment_id	bigint	Foreign key to the assignment associated with this outcome result, if this result was associated with an assignment
quiz_id	bigint	Foreign key to the quiz associated with this outcome result, if this result was associated with a quiz
learning_outcome_id	bigint	Foreign key to the learning outcome this result is associated with
user_id	bigint	ID of the student who made the submission. Foreign key to the user dimension table
created_at	timestamp	Time when the result was created.
updated_at	timestamp	Time when the result was last updated.

Name	Type	Description
assessed_at	timestamp	Time when the result was assessed.
submitted_at	timestamp	Time when the submission was submitted.
hide_points	boolean	Boolean indicating if outcome result points should be hidden in the Learning Mastery Gradebook and reports. If enabled, replace points with the description of the highest scoring outcome criterion rating.
hidden	boolean	Boolean indicating if outcome result should be hidden from the Learning Mastery Gradebook and reports.

learning_outcome_rubric_criterion_dim

Contains dimensions for criterion of a given outcome.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the rubric criterion
learning_outcome_id	bigint	Foreign key to the learning outcome dimension
description	text	Description of the rubric criterion

module_completion_requirement_dim

Attributes for a module completion.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module completion requirement.
module_id	bigint	Module that contains the completion requirement.
module_item_id	bigint	Item that is the subject of the completion requirement.
requirement_type	enum	Type of completion event that must be achieved to consider item complete.

module_dim

Attributes for a module.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module.
canvas_id	bigint	Original primary key for module in the Canvas table.
course_id	bigint	The course that owns this module.
require_sequential_progress	enum	Should module items be completed sequentially? Valid values are 'required', 'not_required', 'unspecified'.
workflow_state	enum	Workflow state for submission lifetime values. Possible values are 'locked', 'completed', 'unlocked' and 'started'.
position	integer	Position of the module on the modules page.
name	text	The name of the module in Canvas.
created_at	timestamp	Date/Time when the module was created.
deleted_at	timestamp	Timestamp when the module was deleted.
unlock_at	timestamp	Timestamp when the module will unlock.
updated_at	timestamp	Date/Time when the module was last updated.

module_item_dim

Attributes for a module item.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module_item.
canvas_id	bigint	Original primary key for module_item in the Canvas table.
assignment_id	bigint	Key into assignments table for 'Assignment' type items.
course_id	bigint	The course that owns this module.
discussion_topic_id	bigint	Key into discussion_topics table for 'Discussion' type items.
file_id	bigint	Key into file table for 'File' type items.
module_id	bigint	Parent module for this module item.
quiz_id	bigint	Key into quizzes table for 'Quiz' type items.
wiki_page_id	bigint	Key into wiki_pages table for 'Page' type items.
content_type	enum	The type of content linked to this item. One of: 'Assignment', 'Attachment', 'DiscussionTopic', 'ContextExternalTool', 'ContextModuleSubHeader', 'ExternalUrl', 'LearningOutcome', 'Quiz', 'Rubric' or 'WikiPage'.
workflow_state	enum	State of the module item.
position	integer	Position of the module item within the module context.
title	text	Title of the module item.
url	text	Url for external url type module items.
created_at	timestamp	Date/Time when the module item was created.
updated_at	timestamp	Date/Time when the module item was last updated.

module_prerequisite_dim

Attributes for a module prerequisite.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module prerequisite.
module_id	bigint	Module that contains the prerequisite.
prerequisite_module_id	bigint	Module that must be completed to fulfill the prerequisite.

module_progression_completion_requirement_dim

Attributes tracking a requirement that remains to be completed by a user. Not a comprehensive list, typically just holds requirements that have been attempted by the user.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module progression completion requirement.
module_progression_id	bigint	Module progression referenced by completion requirement.
module_item_id	bigint	Item that the user has not completed.
requirement_type	enum	Type of completion event that must be achieved to consider item complete.
completion_status	enum	Denotes if the completion event is complete or not. Possible values are 'complete' and 'incomplete'.

module_progression_dim

Attributes for a module progression.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the module progression.
canvas_id	bigint	Original primary key for module progression in the Canvas table.
module_id	bigint	Parent module for this module progression.
user_id	bigint	User being tracked in the module progression.
collapsed	enum	Collapsed state of the module progression.
is_current	enum	The current state of the module progression.

Name	Type	Description
workflow_state	enum	The workflow state of the module progression.
current_position	integer	Represents the users current position in the module.
lock_version	integer	Lock version of the module progression.
created_at	timestamp	Date/Time when the module progression was created.
completed_at	timestamp	Date/Time when the module progression was completed.
evaluated_at	timestamp	Date/Time when the module progression was evaluated.
updated_at	timestamp	Date/Time when the module progression was last updated.

pseudonym_dim

Pseudonyms are logins associated with users.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the pseudonym.
canvas_id	bigint	Primary key for this pseudonym in the the Canvas database
user_id	bigint	Id for the user associated with this pseudonym
account_id	bigint	Id for the account associated with this pseudonym
workflow_state	varchar	Workflow status indicating that pseudonym is [deleted] or [active]
last_request_at	timestamp	Timestamp of when the user last logged in with this pseudonym
last_login_at	timestamp	Timestamp of last time a user logged in with this pseudonym
current_login_at	timestamp	Timestamp of when the user logged in
last_login_ip	varchar	IP address recorded the last time a user logged in with this pseudonym
current_login_ip	varchar	IP address of user's current/last login
position	int	Position of user's login credentials
created_at	timestamp	Timestamp when this pseudonym was created in Canvas
updated_at	timestamp	Timestamp when this pseudonym was last updated in Canvas
password_auto_generated	boolean	True if the password has been auto-generated
deleted_at	timestamp	Timestamp when the pseudonym was deleted (NULL if the pseudonym is still active)
sis_user_id	varchar	Correlated id for the record for this course in the SIS system (assuming SIS integration is configured)
unique_name	varchar	Actual login id for a given pseudonym/account
integration_id	varchar	A secondary unique identifier useful for more complex SIS integrations. This identifier must not change for the user, and must be globally unique.
authentication_provider_id	bigint	The authentication provider this login is associated with. This can be the integer ID of the provider, or the type of the provider (in which case, it will find the first matching provider.)

quiz_dim

Attributes for quiz.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the quiz.
canvas_id	bigint	Primary key for this quiz in the quizzes table.
root_account_id	bigint	Root account ID associated with this quiz.
name	varchar	Name of the quiz. Equivalent Canvas API field -> 'title'.
points_possible	double precision	Total point value given to the quiz.
description	text	Description of the quiz.
quiz_type	varchar	Type of quiz. Possible values are 'practice_quiz', 'assignment', 'graded_survey' and 'survey'. Defaults to 'NULL'.
course_id	bigint	Foreign key to the course the quiz belongs to.
assignment_id	bigint	Foreign key to the assignment the quiz belongs to.
workflow_state	varchar	Denotes where the quiz is in the workflow. Possible values are 'unpublished', 'published' and 'deleted'. Defaults to 'unpublished'.
scoring_policy	varchar	Scoring policy for a quiz that students can take multiple times. Is required and only valid if allowed_attempts > 1. Possible values are 'keep_highest', 'keep_latest' and 'keep_average'. Defaults to 'keep_highest'.
anonymous_submissions	varchar	Dictates whether students are allowed to submit the quiz anonymously. Possible values are 'allow_anonymous_submissions' and 'disallow_anonymous_submissions'. Defaults to 'disallow_anonymous_submissions'.
display_questions	varchar	Policy for displaying the questions in the quiz. Possible values are 'multiple_at_a_time' and 'one_at_a_time'. Defaults to 'multiple_at_a_time'. Equivalent Canvas API field -> 'one_question_at_a_time'.
answer_display_order	varchar	Policy for displaying the answers for each question in the quiz. Possible values are 'in_order' and 'shuffled'. Defaults to 'in_order'. Equivalent Canvas API field -> 'shuffle_answers'.
go_back_to_previous_question	varchar	Policy on going back to the previous question. Is valid only if 'display_questions' is set to 'one_at_a_time'. Possible values are 'allow_going_back' and 'disallow_going_back'. Defaults to 'allow_going_back'. Equivalent Canvas API field -> 'cant_go_back'.
could_be_locked	varchar	Dictates if the quiz can be locked or not. Possible values are 'allow_locking' and 'disallow_locking'. Defaults to 'disallow_locking'.

Name	Type	Description
browser_lockdown	varchar	Dictates whether the browser has locked-down when the quiz is being taken. Possible values are 'required' and 'not_required'. Defaults to 'not_required'.
browser_lockdown_for_displaying_results	varchar	Dictates whether the browser has to be locked-down to display the results. Is valid only if 'hide_results' is set to 'never' or 'until_after_last_attempt' (for the results to be displayed after the last attempt). Possible values are 'required' and 'not_required'. Defaults to 'not_required'.
browser_lockdown_monitor	varchar	Dictates whether a browser lockdown monitor is required. Possible values are 'required' and 'not_required'. Defaults to 'not_required'.
ip_filter	varchar	Restricts access to the quiz to computers in a specified IP range. Filters can be a comma-separated list of addresses, or an address followed by a mask.
show_results	varchar	Dictates whether or not quiz results are shown to students. If set to 'always', students can see their results after any attempt and if set to 'never', students can never see their results. If 'dw_quiz_fact.allowed_attempts > 1' then when set to 'always_after_last_attempt', students can only see their results always, but only after their last attempt. Similarly, if set to 'only_once_after_last_attempt', then students can see their results only after their last attempt, that too only once. Possible values are 'always', 'never', 'always_after_last_attempt' and 'only_once_after_last_attempt'. Defaults to 'always'. Equivalent Canvas API field -> 'hide_results' combined with 'one_time_results'.
show_correct_answers	varchar	Dictates whether correct answers are shown when are results are viewed. It's valid only if 'show_results' is set to 'always'. Possible values are 'always', 'never', 'only_once_after_last_attempt' and 'always_after_last_attempt' (Last two are only valid if 'dw_quiz_fact.allowed_attempts > 1') which have a behavior similar to 'show_results'. Defaults to 'always'. Equivalent Canvas API field -> 'show_correct_answers' combined with 'show_correct_answers_last_attempt'.
show_correct_answers_at	timestamp	Day/Time when the correct answers would be shown.
hide_correct_answers_at	timestamp	Day/Time when the correct answers are to be hidden.
created_at	timestamp	Time when the quiz was created.
updated_at	timestamp	Time when the quiz was last updated.
published_at	timestamp	Time when the quiz was published.
unlock_at	timestamp	Day/Time when the quiz is to be unlocked for students.
lock_at	timestamp	Day/Time when the quiz is to be locked for students.
due_at	timestamp	Day/Time when the quiz is due.
deleted_at	timestamp	Time when the quiz was deleted.

quiz_question_answer_dim

Attributes of an answer related to a quiz question.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the quiz question answer. As with all surrogate keys in Canvas Data, there is no guarantee of stability. That said, this key is particularly unstable and will likely change from dump to dump even if there are no data change.
canvas_id	bigint	Primary key for this quiz question answer. No table available in Canvas.
quiz_question_id	bigint	Foreign key to the quiz question dimension column.
text	text	Text of the answer.
html	text	HTML markup of the text.
comments	text	Specific contextual comments for a particular answer.
text_after_answers	text	(Used in 'short_answer_question', also known as 'fill_in_the_blank'. Set to 'NULL' in others) Text following the missing word.
answer_match_left	varchar	(Used in 'matching_question', set to 'NULL' in others) Static value of the answer that will be displayed on the left for students to match for.
answer_match_right	varchar	(Used in 'matching_question', set to 'NULL' in others) Correct match for the value given in 'answer_match_left', displayed in a drop-down with other 'answer_match_right' values.
matching_answer_incorrect_matches	varchar	(Used in 'matching_question', set to 'NULL' in others) List of distractors (incorrect answers), delimited by new lines, that will be seeded with all the 'answer_match_right' values.
numerical_answer_type	varchar	(Used in 'numerical_question', set to 'NULL' in others) Denotes the type of numerical answer that is expected. Possible values are 'exact_answer' and 'range_answer'.
blank_id	varchar	(Used in 'fill_in_multiple_blanks_question' and 'multiple_dropdowns_question', set to 'NULL' otherwise) Refers to the ID of the blank(s) in the question text.
exact	double precision	(Used in 'numerical_question' with answer type 'exact_answer', set to 'NULL' otherwise) Value the answer must be equal to.
margin	double precision	(Used in 'numerical_question' with answer type 'exact_answer', set to 'NULL' otherwise) Margin of error allowed for a student's answer.
starting_range	double precision	(Used in 'numerical_question' with answer type 'range_answer', set to 'NULL' otherwise) Start of the allowed range (inclusive).
ending_range	double precision	(Used in 'numerical_question' with answer type 'range_answer', set to 'NULL' otherwise) End of the allowed range (inclusive).

quiz_question_dim

Attributes of a question associated with a quiz.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate key for the quiz question.
canvas_id	bigint	Primary key for this quiz question in the 'quiz_questions' table.
quiz_id	bigint	Foreign key to the quiz dimension table.
quiz_question_group_id	bigint	Foreign key to the quiz group dimension table.
position	int	Order in which the question will be displayed in the quiz relative to other questions associated with the quiz.
workflow_state	varchar	Denotes where the quiz question is in the workflow. Possible values are 'unpublished', 'published' and 'deleted'. Defaults to 'unpublished'.
created_at	timestamp	Time when the quiz question was created.
updated_at	timestamp	Time when the quiz question was last updated.
assessment_question_id	bigint	Foreign key to the assessment question dimension table (to be made available in later releases).
assessment_question_version	int	Version of the assessment question associated with the quiz question (to be made available in later releases).
name	varchar	Name of the question.
question_type	varchar	Denotes the type of the question. Possible values are 'calculated_question', 'essay_question', 'file_upload_question', 'fill_in_multiple_blanks_question', 'matching_question', 'multiple_answers_question', 'multiple_choice_question', 'multiple_dropdowns_question', 'numerical_question', 'short_answer_question', 'text_only_question' and 'true_false_question'.
question_text	text	Text content of the question.
regrade_option	varchar	Denotes if regrading is available for the question. Possible values are 'available' and 'unavailable' for question types 'multiple_answers_question', 'multiple_choice_question', 'true_false_question' and 'NULL' for others. Defaults to 'available' for the allowed question types and 'NULL' for the rest.
correct_comments	text	Comments to be displayed if the student answers the question correctly.
incorrect_comments	text	Comments to be displayed if the student answers the question incorrectly.
neutral_comments	text	Comments to be displayed regardless of how the student answers the question.

quiz_question_group_dim

Attributes for quiz group.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the quiz group.
canvas_id	bigint	Primary key for this quiz group in the 'quiz_question_groups' table.
quiz_id	bigint	Foreign key to quiz dimension.
name	varchar	Name of the quiz group.
position	int	Order in which the questions from this group will be displayed in the quiz relative to other questions in the quiz from other groups.
created_at	timestamp	Time when the quiz question was created.
updated_at	timestamp	Time when the quiz question was last updated.

quiz_submission_dim

Attributes for the last submitted quiz

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the quiz submission.
canvas_id	bigint	Primary key for this quiz submission in the 'quiz_submissions' Canvas table.
quiz_id	bigint	ID of the quiz the quiz submission represents. Foreign key to the quiz dimension table.
submission_id	bigint	ID to the submission the quiz submission represents. Foreign key to the quiz submission dimension table.
user_id	bigint	ID of the user (who is a student) who made the submission. Foreign key to the user dimension table.
workflow_state	varchar	Denotes the current state of the quiz submission. Possible values are 'untaken', 'complete', 'pending_review', 'preview' and 'settings_only'. Defaults to 'untaken'. An 'untaken' quiz submission is recorded as soon as a student starts the quiz taking process, before even answering the first question. 'pending_review' denotes that a manual submission has been made by the student which has not been completely graded yet. This usually happens when one or more questions in the quiz cannot be autograded (e.g.. 'essay_question' type questions). A 'preview' workflow state is recorded when a Teacher or Admin previews a quiz (even a partial one). 'settings_only' pertains only to quiz moderation events. It stores the settings to create and store moderation events before the student has begun an attempt.
quiz_state_during_submission	varchar	There can be two types of quiz states during submission, 1. Quiz submission took place after the quiz was manually unlocked after being locked (but only for a particular student such that (s)he can take the quiz even if it's locked for everyone else). 2. Quiz submission was on-time (that is, when the quiz was never locked). So the two possible values are 'manually_unlocked' and 'never_locked'. Defaults to 'never_locked'.

Name	Type	Description
submission_scoring_policy	varchar	Denotes if the score has been manually overridden by a teacher to reflect the score of a previous attempt (as opposed to a score calculated by the quiz's scoring policy. Possible values are 'manually_overridden' or the general quiz scoring policies, i.e. 'keep_highest', 'keep_latest' and 'keep_average'. Defaults to the scoring policy of the quiz the submission is associated with.
submission_source	varchar	Denotes where the submission was received from. Possible values are 'student' and 'test_preview'. Defaults to 'student'.
has_seen_results	varchar	Denotes whether the student has viewed their results to the quiz.
temporary_user_code	varchar	Construct for previewing a quiz.
created_at	timestamp	Time when the quiz submission was created.
updated_at	timestamp	Time when the quiz submission was last updated.
started_at	timestamp	Time at which the student started the quiz submission.
finished_at	timestamp	Time at which the student submitted the quiz submission.
due_at	timestamp	Time at which the quiz submission will be overdue, and will be flagged as a late submission.

quiz_submission_historical_dim

Attributes for all submitted quizzes

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the quiz submission.
canvas_id	bigint	Primary key for this quiz submission in the 'quiz_submissions' Canvas table.
quiz_id	bigint	ID of the quiz the quiz submission represents. Foreign key to the quiz dimension table.
submission_id	bigint	ID to the submission the quiz submission represents. Foreign key to the quiz submission dimension table.
user_id	bigint	ID of the user (who is a student) who made the submission. Foreign key to the user dimension table.
version_number	int	Version number of this quiz submission.
submission_state	varchar	Denotes if the quiz submission is a current or previous submission. Possible values are 'current_submission' and 'previous_submission'. Defaults to 'current_submission'.
workflow_state	varchar	Denotes the current state of the quiz submission. Possible values are 'untaken', 'complete', 'pending_review', 'preview' and 'settings_only'. Out of these, 'settings_only' pertains only to quiz moderation events. It stores the settings to create and store moderation events before the student has begun an attempt. Defaults to 'untaken'.

Name	Type	Description
quiz_state_during_submission	varchar	There can be two types of quiz states during submission, 1. Quiz submission took place after the quiz was manually unlocked after being locked (but only for a particular student such that (s)he can take the quiz even if it's locked for everyone else). 2. Quiz submission was on-time (that is, when the quiz was never locked). So the two possible values are 'manually_unlocked' and 'never_locked'. Defaults to 'never_locked'.
submission_scoring_policy	varchar	Denotes if the score has been manually overridden by a teacher to reflect the score of a previous attempt (as opposed to a score calculated by the quiz's scoring policy. Possible values are 'manually_overridden' or the general quiz scoring policies, i.e. 'keep_highest', 'keep_latest' and 'keep_average'. Defaults to the scoring policy of the quiz the submission is associated with.
submission_source	varchar	Denotes where the submission was received from. Possible values are 'student' and 'test_preview'. Defaults to 'student'.
has_seen_results	varchar	Denotes whether the student has viewed their results to the quiz.
temporary_user_code	varchar	Construct for previewing a quiz.
created_at	timestamp	Time when the quiz submission was created.
updated_at	timestamp	Time when the quiz submission was last updated.
started_at	timestamp	Time at which the student started the quiz submission.
finished_at	timestamp	Time at which the student submitted the quiz submission.
due_at	timestamp	Time at which the quiz submission will be overdue, and will be flagged as a late submission.

role_dim

Give the possible roles for an enrolled user

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the role.
canvas_id	bigint	Primary key for this record in the Canvas roles table
root_account_id	bigint	Foreign key to the account dimension for this role's root account.
account_id	bigint	The foreign key to the account that is in the role
name	varchar	The name of role, previously was "role_name" on the enrollments_dim
base_role_type	varchar	The built in type this role is based on.
workflow_state	varchar	Workflow status indicating that the role is [deleted] or [inactive]
created_at	timestamp	Timestamp of the first time the role was entered into the system
updated_at	timestamp	Timestamp of the last time the role was updated
deleted_at	timestamp	Timestamp of when the role was removed from the system

submission_comment_dim

Table contains attributes related to the submission comments feature in Canvas.

Type: dimension

Columns

Name	Type	Description
id	bigint	
canvas_id	bigint	
submission_id	bigint	
recipient_id	bigint	[Deprecated] No longer used in Canvas, will always be NULL.
author_id	bigint	
assessment_request_id	bigint	
group_comment_id	varchar	
comment	text	
author_name	varchar	
created_at	timestamp	
updated_at	timestamp	
anonymous	boolean	
teacher_only_comment	boolean	
hidden	boolean	

submission_dim

This table records the latest submission for an assignment.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate ID for the submission.
canvas_id	bigint	Primary key of this record in the Canvas submissions table.
body	text	Text content for the submission.
url	varchar	URL content for the submission.
grade	varchar	Letter grade mapped from the score by the grading scheme.
submitted_at	timestamp	Timestamp of when the submission was submitted.
submission_type	enum	Type of submission. Possible values are 'discussion_topic', 'external_tool', 'media_recording', 'online_file_upload', 'online_quiz', 'online_text_entry', 'online_upload' and 'online_url'.

Name	Type	Description
workflow_state	enum	Workflow state for submission lifetime values. Possible values are 'graded', 'pending_review', 'submitted' and 'unsubmitted'.
created_at	timestamp	Timestamp of when the submission was created.
updated_at	timestamp	Timestamp of when the submission was last updated.
processed	boolean	Valid only when there is a file/attachment associated with the submission. By default, this attribute is set to 'false' when making the assignment submission. When a submission has a file/attachment associated with it, upon submitting the assignment a snapshot is saved and its' value is set to 'true'. Defaults to 'NULL'.
process_attempts	int	[Deprecated] No longer used in Canvas, will always be NULL.
grade_matches_current_submission	boolean	Valid only when a score has been assigned to a submission. This is set to 'false' if a student makes a new submission to an already graded assignment. This is done to indicate that the current grade given by the teacher is not for the most recent submission by the student. It is set to 'true' if a score has been given and there is no new submission. Defaults to 'NULL'.
published_grade	varchar	Valid only for a graded submission. The values are strings that reflect the grading type used. For example, a scoring method of 'points' will show '4' if given a '4' out of '5', and a scoring method of 'letter grade' will show 'B' for the same score (assuming a grading scale where 80-90% is a 'B'). Defaults to 'NULL'.
graded_at	timestamp	Timestamp of when the submission was graded.
has_rubric_assessment	boolean	[Deprecated] No longer used in Canvas, will always be NULL.
attempt	int	The number of attempts made including this one.
has_admin_comment	boolean	[Deprecated] No longer used in Canvas, will always be NULL.
assignment_id	bigint	Foreign key to assignment dimension.
excused	enum	Denotes if this submission is excused or not. Possible values are 'excused_submission' and 'regular_submission'.
graded_anonymously	enum	Denotes how the grading has been performed. Possible values are 'graded_anonymously' and 'not_graded_anonymously'.
grader_id	bigint	Foreign key to the user dimension of user who graded the assignment.
group_id	bigint	Foreign key to the group_dim table.
quiz_submission_id	bigint	Foreign key to the quiz_submission_dim table.
user_id	bigint	Foreign key to the user_dim table.
grade_state	enum	Denotes the current state of the grade. Possible values are 'auto_graded', 'human_graded' and 'not_graded'.
posted_at	timestamp	The date this submission was posted to the student, or null if it has not been posted.

user_dim

attributes for users

type: dimension

Columns

Name	Type	Description
id	bigint	Unique surrogate id for the user. This ID is obfuscated to protect the identity of the user.
canvas_id	bigint	Primary key for this user in the Canvas users table.
root_account_id	bigint	Root account associated with this user.
name	varchar	Name of the user
time_zone	varchar	User's primary timezone
created_at	timestamp	Timestamp when the user was created in the Canvas system
visibility	varchar	[Deprecated] No longer used in Canvas, will always be NULL.
school_name	varchar	Used in Trial Versions of Canvas, the school the user is associated with
school_position	varchar	Used in Trial Versions of Canvas, the position the user has at the school. E.g. Admin
gender	varchar	The user's gender. This is an optional field and may not be entered by the user.
locale	varchar	The user's locale. This is an optional field and may not be entered by the user.
public	varchar	Used in Trial Versions of Canvas, the type of school the user is associated with
birthdate	timestamp	The user's birth date. This is an optional field and may not be entered by the user.
country_code	varchar	The user's country code. This is an optional field and may not be entered by the user.
workflow_state	varchar	Workflow status indicating the status of the user, valid values are: creation_pending, deleted, pre_registered, registered
sortable_name	varchar	Name of the user that is should be used for sorting groups of users, such as in the gradebook.
global_canvas_id	varchar	Similar to canvas_id but globalized. This field uses the same globalization as the 'id' field of all other canvas-data tables. Use this field to join to caliper or live event streams.

wiki_dim

Attributes for wiki in canvas.

type: dimension

Columns

Name	Type	Description
id	bigint	Unique id for the wiki.
canvas_id	bigint	Primary key to the wikis table in canvas.
parent_type	varchar	Type of Parent the wiki belongs to. For example, Groups or Courses.
title	text	Title for the wiki.
created_at	timestamp	Timestamp when the wiki was first saved in the system.
updated_at	timestamp	Timestamp when the wiki was last updated in the system.
front_page_url	text	URL of the front page of the wiki.
has_no_front_page	boolean	True if the wiki does not have a front page or is set to NULL.

wiki_page_dim

Attributes for wiki pages in canvas.

Type: dimension

Columns

Name	Type	Description
id	bigint	Unique id for the wiki pages.
canvas_id	bigint	Primary key for the wiki pages table.
title	varchar	Title of the wiki page.
body	text	Body of the wiki page. Redshift will only load the first 256 bytes of the body.
workflow_state	varchar	Current state the wiki is in. For Example, active, unpublished, deleted.
created_at	timestamp	Timestamp when the wiki page was created in the system.
updated_at	timestamp	Timestamp when the wiki page was last updated in the system.
url	text	URL for the wiki page.
protected_editing	boolean	Editing protection for the wiki page. It is false by default.
editing_roles	varchar	Users or roles who can edit a wiki page.
revised_at	timestamp	Timestamp the wiki page was last revised in the system.
could_be_locked	boolean	True if the wiki page can be locked. This prevents it from being visible to others until ready.

requests

Canvas application server request logs. Disclaimer: The data in the requests table is a 'best effort' attempt, and is not guaranteed to be complete or wholly accurate. This data is meant to be used for rollups and analysis in the aggregate, _not_ in isolation for auditing or other high-stakes analysis involving examining single users or small samples. As this data is generated from the Canvas request log files, not a transactional database, there are many places along the way data can be lost and/or duplicated (though uncommon). Additionally, given the size of this data, our processes are often done on monthly cycles for many parts of the requests tables, so as errors occur they can only be rectified monthly.

Type: both

Columns

Name	Type	Description
id	guid	Request ID assigned by the canvas system to the request.
timestamp	datetime	Timestamp when the request was made in UTC.
timestamp_year	varchar	Year when the request was made.
timestamp_month	varchar	Month when the request was made.
timestamp_day	varchar	Day when the request was made.
user_id	bigint	Foreign key in user_dim for the user that made the request. If the request was made by one user masquerading as another, then this column contains the ID of the user being masqueraded as.

Name	Type	Description
course_id	bigint	Foreign key in course_dim for the course that owned the request. Set to NULL if not applicable.
root_account_id	bigint	Foreign key in account_dim for the root account on which this request was made.
course_account_id	bigint	Foreign key in account_dim for the account the associated course is owned by.
quiz_id	bigint	Foreign key in quiz_dim if the request is for a quiz, otherwise NULL.
discussion_id	bigint	Foreign key in discussion_dim if the request is for a discussion, otherwise NULL.
conversation_id	bigint	Foreign key in conversation_dim if the request is for a conversation, otherwise NULL.
assignment_id	bigint	Assignment foreign key if the request is for an assignment, otherwise NULL.
url	text	URL which was requested.
user_agent	text	User agent header received from the users browser/client software.
http_method	varchar	HTTP method/verb (GET, PUT, POST etc.) that was sent with the request.
remote_ip	varchar	IP address that was recorded from the request.
interaction_micros	bigint	Total time required to service the request in microseconds.
web_application_controller	varchar	The controller the Canvas web application used to service this request.
web_application_action	varchar	Controller the Canvas web application used to service this request.
web_application_context_type	varchar	Containing object type the Canvas web application used to service this request.
web_application_context_id	varchar	Containing object's ID the Canvas web application used to service this request.
real_user_id	bigint	If the request was processed by one user masquerading as another, then this column contains the real user ID of the user.
session_id	varchar	ID of the user's session where this request was made.
user_agent_id	bigint	(Not implemented) Foreign key to the user agent dimension table.
http_status	varchar	HTTP status of the request.
http_version	varchar	HTTP protocol version.
developer_key_id	bigint	ID of the developer who accessed this resource if the request was made by a developer.