Learner (LearnerID , first\_name, last\_name, gender, birth\_date, country, cultural\_background)

Skills (LearnerID , skill)

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Skills.LearnerID references Learner.LearnerID

LearningPreference (LearnerID, preference)

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LearningPreference.LearnerID references Learner.LearnerID

PersonalizationProfiles (LearnerID, Profile ID, Prefered\_content\_type, emotional\_state, personality\_type)

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PersonalizationProfiles.LearnerID references Learner.LearnerID

HealthCondition (LearnerID, ProfileID, condition)

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HealthCondition.LearnerID references PersonalizationProfiles.LearnerID

HealthCondition.ProfileID references PersonalizationProfiles.ProfileID

Course (CourseID, Title, learning\_objective, credit\_points, difficulty\_level, description)

CoursePrerequisite(CourseID, Prereq)

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CoursePrerequisite.CourseID references Course.CourseID

CoursePrerequisite.Prereq references Course.CourseID

Modules (ModuleID , CourseID, Title, difficulty, contentURL)

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Modules.CourseID references Course.CourseID

Target\_traits (ModuleID, CourseID, Trait)

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Target\_traits.ModuleID references Modules.ModuleID

Target\_traits.CourseID references Modules.CourseID

ModuleContent(ModuleID, CourseID, content\_type)

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ModuleContent.ModuleID references Modules.ModuleID

ModuleContent.CourseID references Modules.CourseID

ContentLibrary(ID, ModuleID, CourseID, Title, description, metadata, type, content\_URL)

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ContentLibrary.ModuleID references Modules.ModuleID

ContentLibrary.CourseID references Modules.CourseID

Assessments (ID, ModuleID, CourseID, type, total\_marks, passing\_marks, criteria, weightage, description, title) -------------- ------------

Assesments.ModuleID references Modules.ModuleID

Assessments.CourseID references Modules.CourseID

Takenassessment (AssessmentID, LearnerID, scoredPoint)

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Takenassessment.LearnerID references Learner.LearnerID

Takenassessment.AssessmentsID references Assessments.ID

Interaction\_log (LogID, activity\_ID, LearnerID, Duration, Timestamp, action\_type)

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Interaction\_log.activity\_ID references Learning\_activities.ActivityID

Interaction\_log.LearnerID references Learner.LearnerID

Learning\_activities (ActivityID, ModuleID, CourseID, activity\_type, instruction\_details, Max\_points)

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Learning\_activities.ModuleID references Modules.ModuleID

Learning\_activities.CourseID references Modules.CourseID

Emotional\_feedback( FeedbackID, LearnerID, activityID, timestamp, emotional\_state)

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Emotional\_feedback.LearnerID references Learner.LearnerID

Emotional\_feedback.activityID references Learning\_activities.ActivityID

Learning\_path (pathID, LearnerID, ProfileID, completion\_status, custom\_content, adaptive\_rules)

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Learning\_path.LearnerID references PersonalizationProfiles.LearnerID

Learning\_path.ProfileID references PersonalizationProfiles.ProfileID

Instructor ( InstructorID , name, latest\_qualification, expertise\_area, email)

Pathreview (InstructorID, PathID, review)

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Pathreview.InstructorID references Instructor.InstructorID

Pathreview.PathID references Learning\_path.PathID

Emotionalfeedback\_review (FeedbackID, InstructorID, review)

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Emotionalfeedback\_review.FeedbackID references Emotional\_feedback.FeedbackID

Emotionalfeedback\_review.InstructorID references Instructor.InstructorID

Course\_enrollment (EnrollmentID, CourseID, LearnerID, completion\_date, enrollment\_date, status)

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Course\_enrollment.CourseID references Course.CourseID

Course\_enrollment.LearnerID references Learner.LearnerID

Teaches (InstructorID, CourseID)

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Teaches.InstructorID references Instructor.InstructorID

Teaches.CourseID references Course.CourseID

Leaderboard (BoardID, season)

Ranking(BoardID, LearnerID, CourseID, rank, total\_points)

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Ranking.BoardID references Leaderboard BoardID

Ranking.LearnerID references Learner.LearnerID

Ranking.CourseID references Course.CourseID

Learning\_goal (ID, status, deadline, description)

LearnersGoals(GoalID, LearnerID)

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LearnersGoals.GoalID references Learning\_goal.ID

LearnersGoals.LearnerID references Learner.LearnerID

Survey ( ID, Title)

SurveyQuestions (SurveyID, Question)

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SurveyQuestions.SurveyID references Survey.ID

FilledSurvey(SurveyID, Question, LearnerID, Answer)

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FilledSurvey.SurveyID references SurveyQuestions.SurveyID

FilledSurvey.Question references SurveyQuestions.Question

FilledSurvey.LearnerID references Learner.LearnerID

Notification (ID, timestamp, message, urgency\_level, ReadStatus)

ReceivedNotification(NotificationID, LearnerID)

ReceivedNotification.NotificationID references Notification.ID

ReceivedNotification.LearnerID references Learner.LearnerID

Badge ( BadgeID, title, description, criteria, points)

SkillProgression (ID, proficiency\_level, LearnerID, skill\_name, timestamp)

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SkillProgression. LearnerID references Skills. LearnerID

SkillProgression.skill\_name references Skills.skill

Achievement (AchievementID, LearnerID, BadgeID, description, date\_earned, type)

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Achievement.LearnerID references Learner.LearnerID

Acievement.BadgeID references Badge. BadgeID

Reward (RewardID, value, description, type)

Quest ( QuestID, difficulty\_level, criteria, description, title)

Skill\_Mastery (QuestID, skill)

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Skill\_Mastery.QuestID references Quest.QuestID

Collaborative (QuestID, deadline, max\_num\_participants)

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Collaborative.QuestID references Quest.QuestID

LearnersCollaboration(LearnerID, QuestID, completion status)

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LearnersCollaboration.LearnerID references Learner.LearnerID

LearnersCollaboration.QuestID references Collaborative.QuestID

LearnerMastery((LearnerID, QuestID, completion status)

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LearnersMastery.LearnerID references Learner.LearnerID

LearnersMastery.QuestID references Skill\_Mastery.QuestID

Discussion\_forum (forumID, ModuleID, CourseID, title, last\_active, timestamp, description)

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Discussion\_forum.ModuleID references Modules.ModuleID

Discussion\_forum.CourseID references Modules.CourseID

LearnerDiscussion(ForumID, LearnerID, Post, time)

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LearnerDiscussion. ForumID references Discussion\_forum.forumID

LearnerDiscussion.LearnerID references Learner.LearnerID

QuestReward(RewardID, QuestID, LearnerID, Time\_earned)

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QuestReward.RewardID references Reward.RewardID

QuestReward.QuestID references Quest.QuestID

QuestReward.LearnerID references Learner.LearnerID