Learner (LearnerID , first_name, last_name, gender, birth_date, country, cultural_background)

Skills (LearnerID , skill)

Skills.LearnerID references Learner.LearnerID

LearningPreference(LearnerID, preference)

LearningPreference.LearnerID references Learner.LearnerID

PersonalizationProfiles(LearnerID, Profile ID, Prefered-content_type, emotional_state, personality_type)

PersonalizationProfiles.LearnerID references Learner.LearnerID

HealthCondition (LearnerID, ProfileID, condition)
                ------------ -----------
HealthCondition.LearnerID references PersonalizationProfiles.LearnerID
HealthCondition.ProfileID references PersonalizationProfiles.ProfileID

Course (CourseID, Title, learning_objective, credit_points, difficulty_level, pre_requisites, description)

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

Modules.CourseID references Course.CourseID

Target_traits (ModuleID, CourseID, Trait)

Target_traits.ModuleID references Modules.ModuleID
Target_traits.CourseID references Modules.CourseID

ModuleContent(ModuleID, CourseID, content_type)

ModuleContent.ModuleID references Modules.ModuleID
ModuleContent.CourseID references Modules.CourseID

ContentLibrary(ID, ModuleID, CourseID, Title, description, metadata, type, content_URL)
               -------------- -----------
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

Interaction_log (LogID, activity_ID, LearnerID, Duration, Timestamp, action_type)
                       -------------- ------------
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)
                          ------------   -----------
Learning_activities.ModuleID references Modules.ModuleID
Learning_activities.CourseID references Modules.CourseID

Emotional_feedback(FeedbackID, LearnerID, timestamp, emotional_state)

Emotional_feedback.LearnerID references Learner.LearnerID

Learning_path (pathID, LearnerID, ProfileID, completion_status, custom_content, adaptive_rules)
                    -------------- -----------
Learning_path.LearnerID references PersonalizationProfiles.LearnerID
Learning_path.ProfileID references PersonalizationProfiles.ProfileID

Instructor (InstructorID , name, latest_qualification, expertise_area, email)

Pathreview (InstructorID, PathID, feedback)
               ---------------   ---------
Pathreview.InstructorID references Instructor.InstructorID
Pathreview.PathID references Learning_path.PathID

Emotionalfeedback_review (FeedbackID, InstructorID, feedback)
                    ----------------   ---------------
Emotionalfeedback_review.FeedbackID references Emotional_feedback.FeedbackID
Emotionalfeedback_review.InstructorID references Instructor.InstructorID

Course_enrollment (EnrollmentID, CourseID, LearnerID, completion_date, enrollment_date, status)
                       ------------ ------------
Course_enrollment.CourseID references Course.CourseID
Course_enrollment.LearnerID references Learner.LearnerID

Teaches (InstructorID, CourseID)
            ---------------   ------------
Teaches.InstructorID references Instructor.InstructorID
Teaches.CourseID references Course.CourseID

Leaderboard (BoardID, season)

Ranking(<u>BoardID, LearnerID</u>, CourseID, rank, total_points)

Ranking.BoardID references Leaderboard BoardID
Ranking.LearnerID references Learner.LearnerID
Ranking.CourseID references Course.CourseID

Learning_goal (<u>ID</u>, status, deadline, description)

LearnersGoals(<u>GoalID, LearnerID</u>)

LearnersGoals.GoalID references Learning_goal.ID
LearnersGoals.LearnerID references Learner.LearnerID

Survey (<u>ID</u>, Title)
SurveyQuestions (<u>SurveyID, Question</u>)

SurveyQuestions.SurveyID references Survey.ID

FilledSurvey(<u>SurveyID, Question, LearnerID</u>, Answer)

FilledSurvey.SurveyID references SurveyQuestions.SurveyID
FilledSurvey.Question references SurveyQuestions.Question
FilledSurvey.LearnerID references Learner.LearnerID

Notification (<u>ID</u>, timestamp, message, urgency_level)

ReceivedNotification(<u>NotificationID, LearnerID</u>)
ReceivedNotification.NotificationID references Notification.ID
ReceivedNotification.LearnerID references Learner.LearnerID

Badge (<u>BadgeID</u>, title, description, criteria, points)

SkillProgression (<u>ID</u>, proficiency_level, LearnerID, skill_name, timestamp)

SkillProgression. LearnerID references Skills. LearnerID
SkillProgression.skill_name references Skills.skill

Achievement (<u>AchievementID</u>, LearnerID, BadgeID, description, date_earned, type)

Achievement.LearnerID references Learner.LearnerID

Reward (<u>RewardID</u>, value, description, type)

Quest (<u>QuestID,</u> difficulty_level, criteria, description, title)

Skill_Mastery (QuestID, skill)

Skill_Mastery.QuestID references Quest.QuestID

Collaborative (QuestID, deadline, max_num_participants)

Collaborative.QuestID references Quest.QuestID

Discussion_forum (forumID, ModuleID, CourseID, title, last_active, timestamp, description)
                           ------------- -----------
Discussion_forum.ModuleID references Modules.ModuleID
Discussion_forum.CourseID references Modules.CourseID

LearnerDiscussion(ForumID, LearnerID, Post, time)
                  ----------- -----------
LearnerDiscussion. ForumID references Discussion_forum.forumID
LearnerDiscussion.LearnerID references Learner.LearnerID

QuestReward(RewardID, QuestID, LearnerID, Time_earned)
            ------------ --------- ------------
Questreward.RewardID references Reward.RewardID
Questreward.QuestID references Quest.QuestID
Questreward.LearnerID references Learner.LearnerID