# Database Schema Description

This document describes the database schema for a learning management system. The schema supports functionalities such as user management, course creation, task assignments, discussions, messaging, and notifications. Each table in the schema serves a specific purpose and is interconnected to ensure data consistency and integrity.

## User\_

Stores user-related data, such as email, name, birthdate, role, and account details. Users can manage courses and participate in various activities within the system.

## Course

Holds information about courses, including their titles, descriptions, start and end dates, and statuses. Courses are managed by users and have strong ties to tasks, discussions, and calendar events.

## Task

Represents individual tasks or assignments within a course. Each task is tightly associated with a course and includes details like title, description, due date, and status.

## Discussion

Facilitates discussions related to a course. Each discussion is linked to a specific course and contains a title and description.

## Message

Stores messages exchanged within discussions. Each message includes its content, timestamp, and associations with a user and a discussion.

## File\_

Handles file attachments across the system. Files can be linked to tasks, messages, or user profiles, and include details like file path and timestamp.

## CalendarEvent

Represents events scheduled for a course. Each event includes a title, description, and start and end times.

## EngagesIn

Tracks the relationship between users and the courses they are enrolled in, including the date they joined.

## UserDoesTask

Manages associations between users and the tasks they are responsible for or assigned to.

## Notification

Handles notifications sent to users. Each notification includes a title, content, and timestamp to keep users informed.