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Database design diagram

Choosing a database

eTraining website will implement a relational database design, PostgreSQL. PostgreSQL is a rock-solid and open source object-relational database system. It's versatile in terms of architecture (CRUD, System of Records, Analytics, Dashboards and others) and that is powerful in terms of computation. It really is *"The World's Most Advanced Open Source Relational Database"*. And also, PostgreSQL runs on all operating systems.

eTraining web application will be designed and developed a Django, a popular web application framework for Python. Some of the benefits of using PostgreSQL with Django are; it provides a different of data and has many sets of features that are supported by Django.

Tables and explanations

A, Actors

The Admin and the employee are the main actors. The admin person is the one who creates, edits and deletes the topics. The employee is the main user who can attend the posted materials. Admin_employee table has fields First name, Last name, email, title and introduction brief.

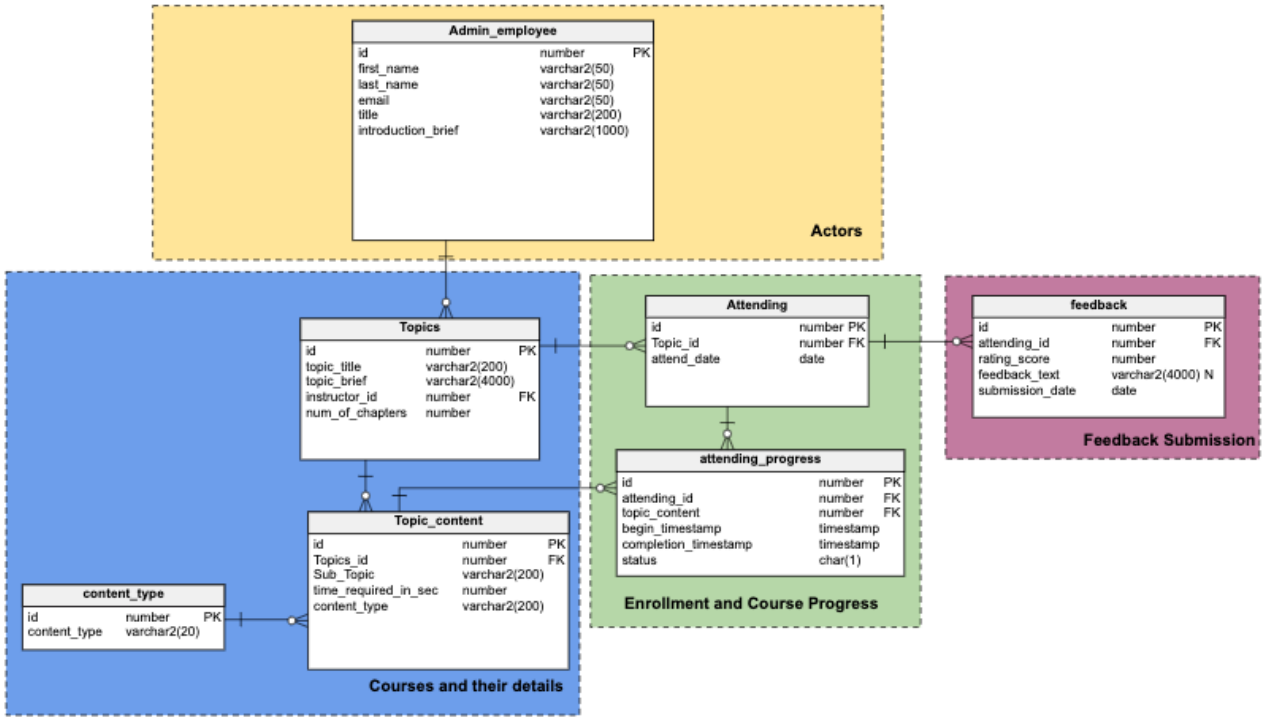
B, Topics and details
This section has Topics, Topic-content and content-type tables. Topics are the main content titles of the post. It has connected with the admin table and Topic_content tables. Topic_content table is the detailed content of the topic that has a connection with content_type table and attending_progress

C, Enrollment and Topic progress

This section has a direct connection with the user who attends and follows the topics of the contents. It has two tables, attending and attend progress tables. The attending table stores the employee ID, topic ID and date. The attend progress table stores data about the topic content.

D, Feedback submission

This section has the feedback table which stores the feedback information like the attending ID, rating_score, feedback_text and submission_date. It has connected directly with the attending table.


Admin_employee
id number PK
first_name varchar2(50)
last_name varchar2(50)
email varchar2(50)
title varchar2(200)
introduction_brief varchar2(1000)
Actors
Topics
id number PK
topic_title varchar2(200)
topic_brief varchar2(4000)
instructor_id number FK
num_of_chapters number
Topic_content
id number PK
Topics_id number FK
Sub_Topic varchar2(200)
time_required_in_sec number
content_type varchar2(200)
content_type
id number PK
content_type varchar2(20)
Courses and their details
Attending
id number PK
Topic_id number FK
attend_date date
attending_progress
id number PK
attending_id number FK
topic_content number FK
begin_timestamp timestamp
completion_timestamp timestamp
status char(1)
Enrollment and Course Progress
feedback
id number PK
attending_id number FK
rating_score number
feedback_text varchar2(4000) N
submission_date date
Feedback Submission