

--PostgreSQL ile Çevrimiçi Eğitim Platformu Veritabanı Tasarımı Projesi

CREATE TABLE Members (

member_id SERIAL PRIMARY KEY,
username VARCHAR(50) UNIQUE NOT NULL,
email VARCHAR(100) UNIQUE NOT NULL,
password VARCHAR(255) NOT NULL,
registration_date TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
first_name VARCHAR(50) NOT NULL,
last_name VARCHAR(50) NOT NULL

);

CREATE TABLE Courses (

course_id SERIAL PRIMARY KEY,
title VARCHAR(200) NOT NULL,
description TEXT,
start_date DATE,
end_date DATE,
instructor VARCHAR(100)

);

CREATE TABLE Categories (

category_id SMALLINT PRIMARY KEY,
name VARCHAR(100) NOT NULL

);

CREATE TABLE CourseCategories (

course_id INTEGER NOT NULL,
category_id SMALLINT NOT NULL,
PRIMARY KEY (course_id, category_id),

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FOREIGN KEY (course_id) REFERENCES Courses(course_id) ON DELETE CASCADE,  
FOREIGN KEY (category_id) REFERENCES Categories(category_id) ON DELETE CASCADE  
);
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```
CREATE TABLE Enrollments (  
    enrollment_id SERIAL PRIMARY KEY,  
    member_id INTEGER NOT NULL,  
    course_id INTEGER NOT NULL,  
    enrollment_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (member_id) REFERENCES Members(member_id) ON DELETE CASCADE,  
    FOREIGN KEY (course_id) REFERENCES Courses(course_id) ON DELETE CASCADE  
);
```

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CREATE TABLE Certificates (  
    certificate_id SERIAL PRIMARY KEY,  
    certificate_code VARCHAR(100) UNIQUE NOT NULL,  
    issue_date DATE NOT NULL  
);
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CREATE TABLE CertificateAssignments (  
    assignment_id SERIAL PRIMARY KEY,  
    member_id INTEGER NOT NULL,  
    certificate_id INTEGER NOT NULL,  
    received_date DATE,  
    FOREIGN KEY (member_id) REFERENCES Members(member_id) ON DELETE CASCADE,  
    FOREIGN KEY (certificate_id) REFERENCES Certificates(certificate_id) ON DELETE CASCADE  
);
```

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CREATE TABLE BlogPosts (  
    post_id SERIAL PRIMARY KEY,  
    title VARCHAR(255) NOT NULL,
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content TEXT NOT NULL,  
publish_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
author_id INTEGER,  
FOREIGN KEY (author_id) REFERENCES Members(member_id) ON DELETE SET NULL  
);
```