

-- PostgreSQL: Cevrimici Egitim Platformu Veritabani Tasarimi

-- 1. Members Tablosu

```
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,  
    first_name VARCHAR(50) NOT NULL,  
    last_name VARCHAR(50) NOT NULL,  
    registration_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    level SMALLINT DEFAULT 1,  
    bio TEXT  
);
```

-- 2. Courses Tablosu

```
CREATE TABLE Courses (  
    course_id SERIAL PRIMARY KEY,  
    course_name VARCHAR(200) NOT NULL,  
    description TEXT,  
    start_date DATE,  
    end_date DATE,  
    instructor_name VARCHAR(100),  
    category_id INTEGER REFERENCES Categories(category_id)  
);
```

-- 3. Categories Tablosu

```
CREATE TABLE Categories (  
    category_id SERIAL PRIMARY KEY,  
    category_name VARCHAR(100) UNIQUE NOT NULL  
);
```

-- 4. Enrollments Tablosu

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

-- 5. Certificates Tablosu

```
CREATE TABLE Certificates (  
    certificate_id SERIAL PRIMARY KEY,  
    certificate_code VARCHAR(100) UNIQUE NOT NULL,  
    issue_date DATE NOT NULL,  
    course_id INTEGER REFERENCES Courses(course_id) ON DELETE SET NULL  
);
```

-- 6. CertificateAssignments Tablosu

```
CREATE TABLE CertificateAssignments (  
    assignment_id SERIAL PRIMARY KEY,  
    member_id INTEGER NOT NULL REFERENCES Members(member_id) ON DELETE CASCADE,  
    certificate_id INTEGER NOT NULL REFERENCES Certificates(certificate_id) ON DELETE  
CASCADE,  
    received_date DATE DEFAULT CURRENT_DATE,  
    UNIQUE(member_id, certificate_id)  
);
```

-- 7. BlogPosts Tablosu

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