



Users	
PK	<u>UserID SERIAL</u>
	Name TEXT
	Email TEXT UNIQUE NOT NULL
	PasswordHash TEXT NOT NULL
	Role TEXT CHECK (Role IN ('Student', 'Admin', 'Mentor')) DEFAULT 'Student'
	SignUpDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP

UserProfiles	
PK	<u>UserID INT NOT NULL</u>
PK	<u>ProfileID SERIAL</u>
	Goals TEXT
	Interests TEXT
	Skills TEXT
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

RoadmapSteps	
PK	<u>RoadmapID INT NOT NULL</u>
PK	<u>StepID SERIAL</u>
	StepDescription TEXT
	IsCompleted BOOLEAN DEFAULT FALSE
	FOREIGN KEY (RoadmapID) REFERENCES Roadmaps(RoadmapID) ON DELETE CASCADE

Assessments	
PK	<u>AssessmentID SERIAL</u>
	Type TEXT CHECK (Type IN ('Personality', 'Skills'))
	Description TEXT

Roadmaps	
PK	<u>UserID INT NOT NULL</u>
PK	<u>RoadmapID SERIAL</u>
	RoadmapType TEXT CHECK (RoadmapType IN ('Educational', 'Career'))
	CreatedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

CommunityMembers	
PK	<u>UserID INT NOT NULL</u>
PK	<u>CommunityID INT NOT NULL</u>
PK	<u>MemberID SERIAL</u>
	Role TEXT CHECK (Role IN ('Member', 'Moderator'))
	JoinedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (CommunityID) REFERENCES Communities(CommunityID) ON DELETE CASCADE
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

AssessmentResults	
PK	<u>AssessmentID INT NOT NULL</u>
PK	<u>UserID INT NOT NULL</u>
PK	<u>ResultID SERIAL</u>
	Score NUMERIC(5,2)
	GeneratedReport TEXT
	CompletedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE
	FOREIGN KEY (AssessmentID) REFERENCES Assessments(AssessmentID) ON DELETE CASCADE

Communities	
PK	<u>CommunityID SERIAL</u>
	Name TEXT NOT NULL
	Description TEXT
	CreatedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP

UserBadges	
PK	<u>BadgeID INT NOT NULL</u>
PK	<u>UserID INT NOT NULL</u>
PK	<u>UserBadgeID SERIAL</u>
	EarnedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE
	FOREIGN KEY (BadgeID) REFERENCES Badges(BadgeID) ON DELETE CASCADE

Certificates	
PK	<u>UserID INT NOT NULL</u>
PK	<u>CertificateID SERIAL</u>
	Title TEXT
	IssueDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

Mentorships	
PK	<u>MentorshipID SERIAL</u>
	MentorID INT NOT NULL
	MenteeID INT NOT NULL
	StartDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	Status TEXT CHECK (Status IN ('Active', 'Completed', 'Pending')) DEFAULT 'Pending'
	FOREIGN KEY (MentorID) REFERENCES Users(UserID) ON DELETE CASCADE
	FOREIGN KEY (MenteeID) REFERENCES Users(UserID) ON DELETE CASCADE

Badges	
PK	<u>BadgeID SERIAL</u>
	Name TEXT NOT NULL
	Description TEXT

LearningResources	
PK	<u>ResourceID SERIAL</u>
	Title TEXT
	URL TEXT
	Description TEXT

Notifications	
PK	<u>UserID INT NOT NULL</u>
PK	<u>NotificationID SERIAL</u>
	Message TEXT
	IsRead BOOLEAN DEFAULT FALSE
	CreatedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

RoadmapResources	
PK	<u>ResourceID INT NOT NULL</u>
PK	<u>RoadmapID INT NOT NULL</u>
	FOREIGN KEY (RoadmapID) REFERENCES Roadmaps(RoadmapID) ON DELETE CASCADE
	FOREIGN KEY (ResourceID) REFERENCES LearningResources(ResourceID) ON DELETE CASCADE

Feedback	
PK	<u>UserID INT NOT NULL</u>
PK	<u>FeedbackID SERIAL</u>
	FeedbackType TEXT CHECK (FeedbackType IN ('Bug Report', 'Feature Request', 'General'))
	Message TEXT
	SubmittedDate TIMESTAMPTZ DEFAULT CURRENT_TIMESTAMP
	FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE







