

Proposed Tables

- 1. Users
- 2. Profiles
- 3. Courses
- 4. Enrollments
- 5. Tests
- 6. Scores
- 7. Advertisements
- 8. CourseFeedback
- 9. Certifications

Data Dictionary for Each Table

1. Users

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
UserID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
FirstName	VARCHAR2	50			Y		'John'		
LastName	VARCHAR2	50			Y		'Doe'		
Email	VARCHAR2	100			Y		'john@example.com'		UNIQUE
Password	VARCHAR2	255			Y		'password123'	Hashed in application	
Role	VARCHAR2	20			Y		'Student'		CHECK (Role IN ('Student', 'Instructor'))

2. Profiles

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
ProfileID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
UserID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
Bio	VARCHAR2	125					'Bio text'		
ProfilePicture	VARCHAR2						"https://..."	Stores image URL	
Industry	VARCHAR2	50					'Tech'		

3. Courses

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
CourseID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
InstructorID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
Title	VARCHAR2	100			Y		'Course Title'		UNIQUE
Description	VARCHAR2	125					'Course Description'		
Industry	VARCHAR2	50					'Tech'		
IsCertified	CHAR	1	'N'		Y		'Y'		CHECK (IsCertified IN ('Y', 'N'))
Price	NUMBER	10,2	0.00		Y		99.99		

4. Enrollments

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
EnrollmentID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
CourseID	NUMBER			FK	Y		1		REFERENCES Courses(CourseID)
UserID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
EnrollmentDate	DATE		SYSDATE		Y		2024-07-12		

5. Tests

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
TestID	NUMBER			PK	Y		1	Auto numbered identity	UNIQUE
CourseID	NUMBER			FK	Y		1		REFERENCES Courses(CourseID)
TestTitle	VARCHAR2	100			Y		'Test Title'		UNIQUE
Test Description	VARCHAR2	255					'Test Description'		

6. Scores

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
ScoreID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
TestID	NUMBER			FK	Y		1		REFERENCES Tests(TestID)
UserID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
Score	NUMBER	5,2			Y	0-100	95.00		

7. Advertisements

Column	Data Type	Size	Default	PK/ FK	Required	Range	Sample Data	Notes	Constraints
AdID	NUMBER			PK	Y		1	Auto numbered identity	UNIQUE
CourseID	NUMBER			FK	Y		1		REFERENCES Courses(CourseID)
AdTitle	VARCHAR2	100			Y		'Ad Title'		UNIQUE
AdDescription	VARCHAR2	255					'Ad Description'		
Revenue	NUMBER	10,2	0.00		Y		500.00	Revenue in \$	

8. CourseFeedback

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
FeedbackID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
CourseID	NUMBER			FK	Y		1		REFERENCES Courses(CourseID)
UserID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
Rating	NUMBER	1			Y	1-5	4		CHECK (Rating BETWEEN 1 AND 5)
Comments	VARCHAR2	125					'Great course!'		

9. Certifications

Column	Data Type	Size	Default	PK/FK	Required	Range	Sample Data	Notes	Constraints
CertificationID	NUMBER			PK	Y		1	Autonumbered identity	UNIQUE
CourseID	NUMBER			FK	Y		1		REFERENCES Courses(CourseID)
UserID	NUMBER			FK	Y		1		REFERENCES Users(UserID)
CertificationDate	DATE		SYSDATE		Y		2024-07-12	Format is YYYY-MM-DD	