

ERD

User Table

Column Name	Data Type	Constraint
UserID	INT	PK
Email	VARCHAR(255)	UC
PasswordHash	VARCHAR(255)	
FirstName	VARCHAR(100)	
LastName	VARCHAR(100)	
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NativeLanguageID	INT	FK (Language)
TargetLanguageID	INT	FK (Language)
CurrentCEFR_LevelID	INT	FK (Level)

Language Table

Column Name	Data Type	Constraint	Purpose / Description
LanguageID	INT	PK	Unique identifier for each language.
LanguageName	VARCHAR(100)	UC	The common name of the language (e.g., 'Spanish', 'French').
ISOCode	VARCHAR(5)	UC	The standardized two-letter code (e.g., 'es', 'fr').

Content

Column Name	Data Type	Constraint	Purpose / How it "Includes" Content Types
ContentID	INT	PK	The universal ID for <i>any</i> piece of content.
ContentType	ENUM/VARCHAR(20)		Crucial: This column defines the "type" of content (e.g., 'Story', 'Lesson', 'Audio'). This tells the system which specialized table to look up for details.
LanguageID	INT	FK (Language)	Specifies the language of the content.
CEFR_LevelID	INT	FK (Level)	The proficiency level the content is targeted at.
Title	VARCHAR(255)		The main title (e.g., "El Billete de La Felicidad").
DatePublished	DATE		When the content was published.

Story

Column Name	Data Type	Constraint	Purpose / Description
ContentID	INT	PK, FK (Content)	The unique identifier and link to the generic Content record.
Author	VARCHAR(100)		The writer of the story.
FullContent	TEXT		The complete text of the story in the target language.
ArabicTranslationContent	TEXT		The full English translation provided for learning.
AudioURL	VARCHAR(255)		The URL link to the story's audio file.

Level Table

Column Name	Data Type	Constraint	
LevelID	INT	PK	
LevelCode	VARCHAR(5)	UC	
Description	VARCHAR(100)		

Reading_Progress Table

Column Name	Data Type	Constraint	Purpose / Linkage
UserID	INT	PK, FK (User)	Identifies the user who engaged with the content.
ContentID	INT	PK, FK (Content)	Identifies the specific story or lesson read.
DateCompleted	DATETIME		Timestamp when the content was finished.
Score	DECIMAL(5,2)		Optional: Score on the quiz associated with this content.
Status	VARCHAR(20)		Tracking state (e.g., 'Started', 'Completed', 'Reviewed').

Story_Vocabulary Table

Column Name	Data Type	Constraint	Purpose / Specificity
VocabID	INT	PK	Unique identifier for the vocabulary item.
ContentID	INT	FK (Content)	This is the key: It links the word directly to <i>one specific</i> story or lesson record in the Content table.
SpanishWord	VARCHAR(50)		The word in the target language.

ArabicTranslation	VARCHAR(50)		The translation provided to the user.
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Personal_Vocabulary_Bank Table

Column Name	Data Type	Constraint	Purpose / Description
BankEntryID	INT	PK	Unique identifier for this specific saved word record.
UserID	INT	FK (User)	Crucial Link: Identifies which learner owns this vocabulary entry.
SpanishWord	VARCHAR(50)		The word saved by the user.
EnglishTranslation	VARCHAR(50)		The translation saved by the user.
DateAdded	DATETIME		Timestamp of when the word was added to the bank.
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ContentID	INT	FK (Content), Nullable	<i>Recommended:</i> Tracks which Story or Lesson the word was learned from.

Quiz_Question Table

Column Name	Data Type	Constraint	Purpose / Description
QuestionID	INT	PK	Unique identifier for each question/assessment item.
ContentID	INT	FK (Content)	Crucial Link: Identifies which story or lesson this question belongs to.
QuestionType	ENUM/VARCHAR(20)		Defines the format (e.g., ' MultipleChoice ',

		'Flashcard', 'WritingPrompt').
QuestionText	TEXT	The actual text of the question or the prompt.
CorrectAnswer	TEXT	The correct answer (for objective question types).
Options	JSON/TEXT	Stores a list of incorrect options for multiple-choice questions.