TABLES-SKILLVOYAGE

Users Table

Field Name	Data Type (size)	Key Constraint	Description of the field
user_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each user
username	VARCHAR(50)	UNIQUE, NOT NULL	Username for the user
password	VARCHAR(100)	NOT NULL	Password for the user
email	VARCHAR(100)	UNIQUE, NOT NULL	Email address of the user
full_name	VARCHAR(100)		Full name of the user
user_type	ENUM	NOT NULL	Role ('student', 'instructor', 'admin')

Courses Table

Field Name	Data Type (size)	Key Constraint	Description of the field
course_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each course
title	VARCHAR(100)	NOT NULL	Title of the course
description	TEXT		Description of the course

Field Name	Data Type (size)	Key Constraint	Description of the field
instructor_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	Instructor ID for the course
category	VARCHAR(50)		Category of the course
course_type	VARCHAR(10)	CHECK (course_type IN ('free', 'paid')), NOT NULL	Type of the course (free/paid)
price	DECIMAL(10, 2)	CHECK (price >= 0), NOT NULL	Price of the course

Payments Table

Field Name	Data Type (size)	Key Constraint	Description of the field
payment_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each payment
enrollment_id	INTEGER	FOREIGN KEY REFERENCES Enrollments(enrollment_id), NOT NULL	Enrollment ID related to the payment
amount	DECIMAL(10, 2)	CHECK (amount >= 0), NOT NULL	Amount paid
payment_date	DATE	NOT NULL	Date of payment
payment_method	VARCHAR(50)		Method of payment (e.g., credit card, PayPal)
payment_status	VARCHAR(10)	CHECK (payment_status IN ('pending', 'completed')), NOT NULL	Status of the payment
payment_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each payment

Enrollments Table

Field Name	Data Type (size)	Key Constraint	Description of the field
enrollment_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each enrollment
user_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	User ID for the student enrolled
course_id	INTEGER	FOREIGN KEY REFERENCES Courses(course_id), NOT NULL	Course ID for the enrollment
enrollment_date	DATE	NOT NULL	Date of enrollment

Field Name	Data Type (size)	Key Constraint	Description of the field
payment_status	VARCHAR(10)	CHECK (payment_status IN ('pending', 'completed')), NOT NULL	Status of the payment

Video Tutorials Table

Field Name	Data Type (size)	Key Constraint	Description of the field
video_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each video
course_id	INTEGER	FOREIGN KEY REFERENCES Courses(course_id), NOT NULL	Course ID for the video
title	VARCHAR(100)	NOT NULL	Title of the video
url	TEXT	NOT NULL	URL of the video
duration	TIME		Duration of the video

Showcases Table

Field Name	Data Type (size)	Key Constraint	Description of the field
showcase_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each showcase
user_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	User ID who uploaded the showcase
title	VARCHAR(100)	NOT NULL	Title of the showcase
media_url	TEXT	NOT NULL	URL of the showcase media (video/image)
description	TEXT		Description of the showcase

Equipment Table

Field Name	Data Type (size)	Key Constraint	Description of the field
equipment_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each equipment
name	VARCHAR(100)	NOT NULL	Name of the equipment
type	VARCHAR(50)		Type of equipment
price	DECIMAL(10, 2)	NOT NULL	Price of the equipment

| availability | BOOLEAN | NOT NULL, DEFAULT TRUE | Availability status of the equipment |
| transaction_type | VARCHAR(10) | CHECK (transaction_type IN ('rent', 'buy')) | Type of transaction (rent or buy) |

EquipmentTransactions Table

Field Name	Data Type (size)	Key Constraint	Description of the field
transaction_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each transaction
equipment_id	INTEGER	FOREIGN KEY REFERENCES Equipment(equipment_id), NOT NULL	ID of the equipment involved
user_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	ID of the user renting or buying the equipment
transaction_date	DATE	NOT NULL	Date of the transaction
transaction_type	VARCHAR(10)	CHECK (transaction_type IN ('rent', 'buy')), NOT NULL	Type of transaction (rent or buy)
return_date	DATE	NULLABLE	Return date if the equipment is rented
amount	DECIMAL(10, 2)	NOT NULL	Amount paid for the transaction

Events Table

Field Name	Data Type (size)	Key Constraint	Description of the field
event_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each event
title	VARCHAR(100)	NOT NULL	Title of the event
description	TEXT		Description of the event
event_date	DATE	NOT NULL	Date of the event
location	VARCHAR(100)		Location of the event
category	VARCHAR(50)		Category of the event

Feedback Table

Field Name	Data Type (size)	Key Constraint	Description of the field

feedback_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each feedback
user_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	User ID giving the feedback
course_id	INTEGER	FOREIGN KEY REFERENCES Courses(course_id)	Course ID for which feedback is given
rating	INTEGER	NOT NULL, CHECK(rating >= 1 AND rating <= 5)	Rating given by the user
comments	TEXT		Comments provided by the user
feedback_date	DATE	NOT NULL	Date of feedback
feedback_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each feedback

Notifications Table

Field Name	Data Type (size)	Key Constraint	Description of the field
notification_id	INTEGER	PRIMARY KEY, AUTOINCREMENT	Unique identifier for each notification
user_id	INTEGER	FOREIGN KEY REFERENCES Users(user_id), NOT NULL	User ID receiving the notification
message	TEXT	NOT NULL	Notification message
is_read	BOOLEAN	NOT NULL, DEFAULT FALSE	Read status of the notification
notification_date	DATE	NOT NULL	Date of the notification

User Activity Logs

Field Name	Data Type (size)	Key Constraint	Description of the field
log_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each log entry
user_id	INT	FOREIGN KEY (REFERENCES users(user_id))	ID of the user who performed the activity
activity	VARCHAR(255)	NOT NULL	Description of the user activity
timestamp	DATETIME	NOT NULL	Time when the activity occurred

Course Reviews

Field Name	Data Type (size)	Key Constraint	Description of the field
review_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each review

course_id	INT	FOREIGN KEY (REFERENCES courses(course_id))	ID of the course being reviewed
student_id	INT	FOREIGN KEY (REFERENCES users(user_id))	ID of the student who wrote the review
rating	INT	NOT NULL	Rating given to the course
review	TEXT	NOT NULL	Review content
created_at	DATETIME	NOT NULL	Time when the review was created

EquipmentOrders Table

Field Name	Data Type (size)	Key Constraint	Description of the field
order_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each order
user_id	INT	FOREIGN KEY (REFERENCES Users(user_id))	ID of the user who placed the order
equipment_id	INT	FOREIGN KEY (REFERENCES Equipment(equipment_id))	ID of the equipment ordered
order_date	DATETIME	NOT NULL	Date when the order was placed
status	VARCHAR(50)	NOT NULL	Current status of the order
return_date	DATETIME	NULLABLE	Date when the equipment is to be returned if rented

Certificate Details

Field Name	Data Type (size)	Key Constraint	Description of the field
certificate_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each certificate
student_id	INT	FOREIGN KEY (REFERENCES users(user_id))	ID of the student awarded the certificate
course_id	INT	FOREIGN KEY (REFERENCES courses(course_id))	ID of the completed course
issue_date	DATETIME	NOT NULL	Date when the certificate was issued
expiry_date	DATETIME	NULL	Expiry date of the certificate (if applicable)
certificate_id	INT	PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each certificate