ERD DOCUMENT

ADMIN

int	admin_id	PK
string	admin_name	
string	email	
string	password	
string	role	
boolean	is_active	
datetime	last_login_at	
string	remember_token	

CATEGORY

int	category_id	PK
string	category_name	
string	icon	
string	description	

VENUE

int	venue_id	PK
string	venue_name	
string	address	
int	capacity	

manages   categorizes   hosts

EVENT

int	event_id	PK
int	admin_id	FK
string	event_name	
date	event_date	
time	event_time	
int	category_id	FK
int	venue_id	FK
string	description	
decimal	base_price	
string	image_url	
int	total_tickets	

USER

int	user_id	PK
string	username	
string	email	
string	password	
datetime	email_verified_at	
string	remember_token	

purchases   has

TICKET

int	ticket_id	PK
int	user_id	FK
int	event_id	FK
datetime	purchase_date	

paid_by

PAYMENT

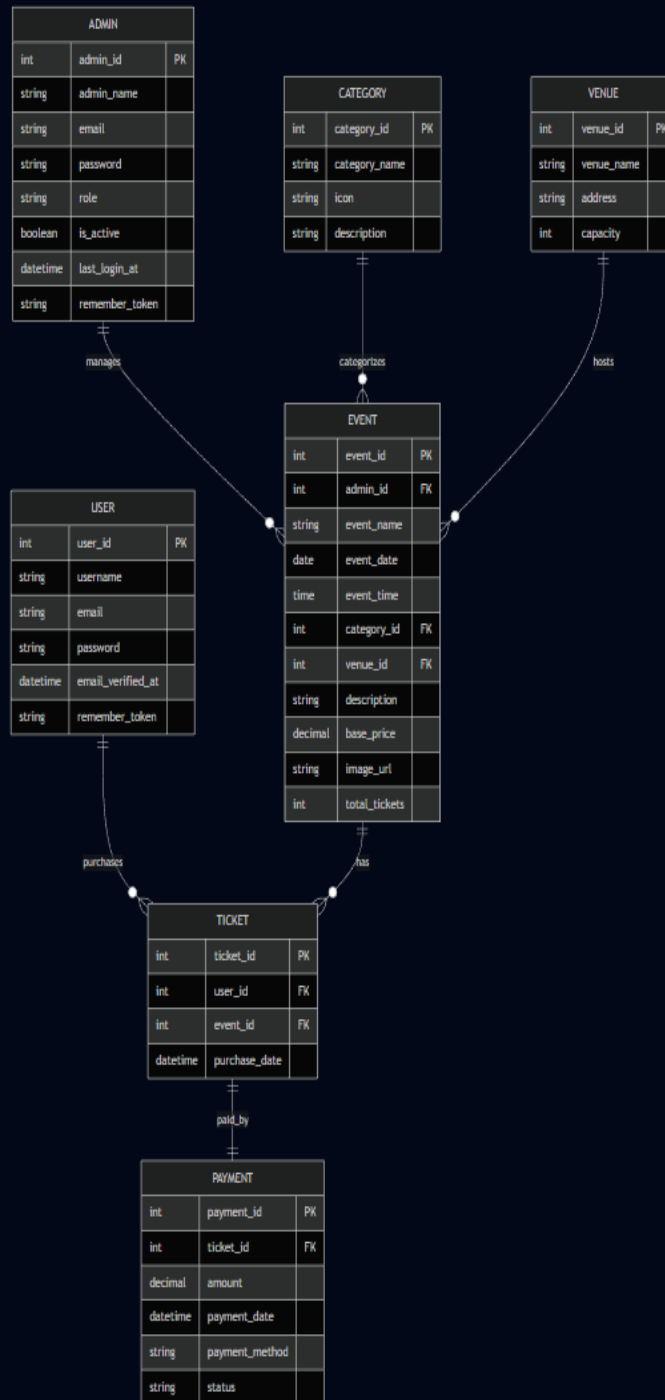| int	payment_id	PK
int	ticket_id	FK
decimal	amount	
datetime	payment_date	
string	payment_method	
string	status	

Relationship Summary (Cardinalities)

1. **User – Ticket**

- **Relationship: One-to-Many**

- **Description:**

    o   A single User can purchase multiple Tickets.

    o   Each Ticket is associated with exactly one User.

- **Implementation:**

    o   tickets.user_id → users.user_id (FK)

2. **Admin – Event**

- **Relationship: One-to-Many**

- Description:

    o   An Admin can create or manage multiple Events.

    o   Each Event is owned/managed by exactly one Admin.

- **Implementation:**

    o   events.admin_id → admins.admin_id (FK)

3. **Category – Event**

- **Relationship:** One-to-Many

- **Description:**

    o   A Category can contain many Events.

    o   Each Event belongs to exactly one Category.

- **Implementation:**

    o   events.category_id → categories.category_id (FK)

4. **Venue – Event**

- **Relationship:** One-to-Many

- **Description:**

    o   A Venue can host many Events over time.

    o   Each Event is hosted at exactly one Venue.

- **Implementation:**

  - events.venue_id → venues.venue_id (FK)

5. **Event – Ticket**

- **Relationship:** One-to-Many

- **Description:**

  - An Event can have many Tickets (up to total_tickets).

  - Each Ticket is for exactly one Event.

- **Implementation:**

  - tickets.event_id → events.event_id (FK)

6. **Ticket – Payment**

- **Relationship: One**-to-One (in your current model)

- **Description:**

  - Each Ticket has exactly one Payment record (representing its purchase).

  - Each Payment is linked to exactly one Ticket.

- **Implementation:**

  - payments.ticket_id → tickets.ticket_id (FK)