ER diagram for College Festival

Diagram

Performer
- *performer_id*
- { performer_type }
- { genre }
- description
- website
- travel_requirments
- accomodation

Host Student
- *host_student_id*
- department
- year
- roll_number

Visiting Student
- *visiting_student_id*
- university_id
- department
- year

Staff
- *staff_id*
- schedule

GuestSpeaker
- *speaker_id*
- affiliation
- schedule
- accomodation

Evaluator
- *evaluator_id*
- schedule
- affiliation
- expertise_area

Title Sponsor
- { exclusive_naming_rights }
- { event_exclusivity }

Accommodation
- *accommodation_id*
- accommodation_name
- location
  - room_number
  - address_line_1
  - address_line__2
- capacity
- cost_per_night
- contact_info
- { facilities }

Platinum Sponsor
- prominent_branding_package
- { exclusive_booth_space }
- { custom_event_opportunities }

Official Sponsor
- *sponsor_level_id*
- { exclusive_rights}
- { category_exclusivity }

Publicity & Media Partner
- { media_type }
- { advertisements }
- coverage_plan

Snacks Partner
- { snacks_type }
- { storage_requirements }
- { allergen_info }

Music Streaming Partner
- streaming_platform
- { curated_playlists }
- { offline_listening_options }

Corporate Sponsor
- { industry_focus }
- { promotional_material }
- { product_showcase }

Technology Partner
- { technological_expertise }
- { services_provided }
- { workshop_sessions }

Fashion Partner
- { fashion_category }
- { products }
- { styling_services }

Stage Setup
- stage_size
- backdrop_material
- lighting_control_system
- stage_decoration
- stage_props
- stage_risers
- safety_barriers

Seating
- material
- seating_capacity
- design_type

Lighting Equiptment
- bulb_type
- wattage
- colour_temp

Computers
- processor
- ram
- storage_capacity

Audio-Visual Equiptment
- display_type
- resolution
- connectivity

Sponsor
- *sponsor_id*
- schedule
- { contribution_amount }
- organisation_name

User
- *user_id*
- password
- name
  - first_name
  - middle_initial
  - last_name
- { email }
- registration_date
- last_login_date
- { phone_number }
- address
  - address_line_1
  - address_line_2
  - state
  - country
  - pin-code
- gender
- date_of_birth

UserRole
- *user_role_id*

Infrastructure
- *infrastructure_id*
- name
- manufacturer
- model
- condition
- maintenance_notes

Venue
- *venue_id*
- name
- capacity
- address
  - address_line_1
  - address_line_2

Infrastructure Schedule
- *infrastructure_schedule_id*
- { time_frames }

Event Schedule
- *schedule_id*
- time_schedule
  - start_time
  - end_time
  - { event_periods }
- duration()

Event
- *event_id*
- event_name
- event_description
- date
  - start_date
  - end_date
  - { breaks }
  - duration()
- venue_id
- budget
- registration
  - registration_start
  - registration_end
- max_participants
- min_participants
- status

Team
- *team_id*
- team_name

Guest Lecture
- { topic }
- { language }
- interactive_event
- reservation_required

Hackathon
- { technical_requirements }
- challenge_statement
- mentor_availability
- { submission_format }

Competition
- { prize }
- { rules }
- { competition_stages }

Workshop
- { topics }
- { workshop_material }
- { prize }

Performance
- { ticket_price }

Relationships: Role Type, Sponsorship Level, Given Accommodation, Has Role, Has Infrastructure Schedule, Required Infrastructure, Has Event Schedule, Scheduled Events, Sponsored By, Evaluated By, Guest Spoken By, Staffed By, Participants, Teams, Performers

Associative attributes: sponsorship_contract / contribution_amount, evaluation_criteria, speech_topic, prescribed_work, contract / performance_cost

Cardinalities: 1..1, 1..*, 0..1, 0..*

Entities

Entity	Primary Key	Description
User	user_id	Stores information about users
UserRole	user_role_id	General entity for user roles
Performer	performer_id	Entity to represent a performer
Host Student	host_student_id	Entity to represent a student from the hosting college
Visiting Student	visiting_student_id	Entity to represent a student from another institute
Staff	staff_id	Entity represents a festival staff member
Evaluator	evaluator_id	Entity represents an evaluator for the festival
Sponsor	sponsor_id	Entity represents a sponsor
Event	event_id	Entity represents an event
[1]Team	team_id	Entity represents a team participating in an event
[2]Performance	*	Entity represents a Performance
[2]Guest Lecture	*	Entity represents a Guest Lecture
[2]Competition	*	Entity represents a Competition
[2]Hackathon	*	Entity represents a Hackathon
[2]Workshop	*	Entity represents a Workshop
Event Schedule	event_schedule_id	Entity represents a schedule for an event
Infrastructure Schedule	infrastructure_schedule_id	Entity represents a schedule for the infrastructure required for an event
Venue	venue_id	Entity represents a venue
Infrastructure	infrastructure_id	Entity represents a piece of infrastructure
[2]Audio-Visual Equipment	*	Entity represents a piece of audio-visual equipment
[2]Computers	*	Entity represents a computer
[2]Lighting Equipment	*	Entity represents a piece of lighting equipment
[2]Seating	*	Entity represents a seating arrangement
[2]Stage Setup	*	Entity represents all the objects required for a stage to be setup
[2]Publicity & Media Partner	*	Entity represents a publicity and media partner
[2]Corporate Sponsor	*	Entity represents a corporate sponsor
[2]Snacks Partner	*	Entity represents a snacks partner
[2]Technology Partner	*	Entity represents a technology partner
[2]Music Streaming Partner	*	Entity represents a music streaming partner
[2]Fashion Partner	*	Entity represents a fashion partner
[1]Official Sponsor	*	Entity represents an official sponsor (sponsorship level)
[1]Platinum Sponsor	*	Entity represents a platinum sponsor (sponsorship level)
[1]Title Sponsor	*	Entity represents a title sponsor (sponsorship level)
Accommodation	accommodation_id	Entity represents the provided accommodation

[1] - These are weak entities.
[2] - These entities are specializations of other entities, and so inherit there attributes and private keys.