Relational Model

Relation: College

College (college_name : string, college_id : string, college_address :

string)

Attribute Name	Data Type	Constraints	Description
College_name	String	NOT NULL	Name of the college.
College_id	String	PRIMARY KEY	ID number of the college.
College_address	String	NOT NULL	Address of the college.

Relation: Fest Organising Committee

Fest_organising_committee (member_name : string, student_id : long

integer, programme: string, gender: string, designation: string)

Attribute Name	Data Type	Constraints	Description
Member_name	String	NOT NULL	Name of fest
			organising
			committee member.
Student_id	Long integer	PRIMARY KEY	ID number of the
			member.
Programme	String	NOT NULL	Enrolled programme
			of the fest organising
			committee member.
Gender	String	NOT NULL	Gender of the
			member.
Designation	String	NOT NULL	Designation of the
			Fest organising
			committee member.

Relation: Sponsors

Sponsors (name: string, sponsor_id: long integer, Budget: integer)

Attribute Name	Data Type	Constraints	Description
Name	String	NOT NULL	Name of the
			sponsors.
Sponsor_id	Long integer	PRIMARY KEY	ID number of the
			sponsor.
Budget	Integer	NOT NULL	Budget of the
			sponsors.

Relation: Co-ordinators

Coordinators (student_id : integer, student_name : string, student_role

: string)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PRIMARY KEY	ID number of the
			student.
Student_name	String	NOT NULL	Name of the student.
Student_role	String	NOT NULL	Role of the student
			as co-ordinator.

Relation: Fest

Fest (fest_name : string, schedule : date_time, fest_id : string, theme :

string, venue: string)

Attribute Name	Data Type	Constraints	Description
Fest_name	String	NOT NULL	Name of the college
			fest.
Schedule	Date Time	NOT NULL	Schedule of the fest.
Fest_id	String	PRIMARY KEY	ID number of the
			college fest.
Theme	String	NOT NULL	Theme of the college
			fest.
Venue	String	NOT NULL	Venue details of the
			college fest.

Relation: Event Management Committee

Event_management_committee (member_name : string,

student_email : string, member_id : string, student_id : integer,

event_id : string)

Attribute Name	Data Type	Constraints	Description
Member_name	String	NOT NULL	Name of the
			member.
Student_email	String	NOT NULL	Email address of the
			student member.
Member_id	String	NOT NULL	ID number of the
			student member.
Student_id	Integer	PRIMARY_KEY	Student ID of the
			member.
Event_id	String	NUT NULL	Event ID of the event
			managed by the
			student member.

Relation: Events

Events (event_name : String, event_id : string, event_description :

String, event_venue : String, event_type : String)

Attribute Name	Data Type	Constraints	Description
Event_name	String	NOT NULL	Name of the event
			being organised.
Event_id	String	PRIMARY KEY	ID of the event being
			organised.
Event_description	String	NOT NULL	Description of the
			event being
			organised.
Event_venue	String	NOT NULL	Venue of the event
			being organised.
Event_type	String	NOT NULL	The category of the
			event being
			organised.

Relation: Results

Results (student_id : Integer, student_name : String, event_id : String,

event_name : String)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PRIMARY KEY	ID number of the
			student.
Student_name	String	NOT NULL	Name of the student.
Event_id	String	NOT NULL	ID of the event.
Event_name	String	NOT NULL	Name of the event.

Relation: Participants

Participants (registration_id: Integer, Name: String, Branch: String,

Student_id: Integer, Student_email: String)

Attribute Name	Data Type	Constraints	Description
Registration_id	Integer	PRIMARY KEY	Registration ID of the
			participant.
Name	String	NOT NULL	Name of the
			participant.
Branch	String	NOT NULL	Course branch of the
			participants.
Student_id	Integer	NOT NULL	ID number of the
			students.
Student_email	String	NOT NULL	Email address of the
			students.

Relation: Volunteer

Volunteer (student_id : Integer, student_name : String, gender :

Character)

Attribute Name	Data Type	Constraints	Description
Student_id	Integer	PARTIAL KEY	ID number of the
			student volunteer.
Student_name	String	NOT NULL	Name of the student
			volunteer.
Gender	Character	NOT NULL	Gender of the
			student volunteer.

Relation: Security

Security (security_id : Integer, name : String)

Attribute Name	Data Type	Constraints	Description
Security_id	Integer	PRIMARY KEY	ID number of the
			security members.
Name	String	NOT NULL	Name of the security
			members.

DDL Statements

```
1. DDL for creating Schema:
  CREATE SCHEMA College-Fest-DB
2. DDL for creating tables:
  College:
        CREATE TABLE College (
              College_name CHAR(20) NOT NULL,
              College_id CHAR(10) NOT NULL,
              College address CHAR(50) NOT NULL,
              PRIMARY KEY (College_id)
        );
  Fest Organising Committee:
        CREATE TABLE Fest_organising_committee (
              Member_name CHAR(20) NOT NULL,
              Student_id CHAR(10) NOT NULL,
              Programme CHAR(10) NOT NULL,
              Gender CHAR(6) NOT NULL,
              Designation CHAR(10) NOT NULL,
              PRIMARY KEY (Student_id)
        );
  Sponsors:
        CREATE TABLE Sponsors (
              Name CHAR(20) NOT NULL,
              Sponsor_id CHAR(10) NOT NULL,
              Budget INT
              PRIMARY KEY (Sponsor_id)
        );
```

```
Coordinators:
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```
CREATE TABLE Coordinators (
           Student id CHAR(10) NOT NULL,
           Student name CHAR(50) NOT NULL,
           Student role CHAR(10) NOT NULL
           PRIMARY KEY (Student id)
     );
Fest:
     CREATE TABLE Fest (
           Fest name CHAR(15) NOT NULL,
           Schedule DATE NOT NULL,
           Fest id CHAR(10) NOT NULL,
           Theme CHAR(15) NOT NULL,
           Venue CHAR(10) NOT NULL
           PRIMARY KEY (Fest id)
     );
Event Management Committee:
     CREATE TABLE Event management committee (
           Member_name CHAR(15) NOT NULL,
           Student_email CHAR(30) NOT NULL,
           Member id CHAR(10) NOT NULL,
           Student id CHAR(10) NOT NULL,
           Event id CHAR(10) NOT NULL,
           PRIMARY KEY (Member_id)
     );
Event:
     CREATE TABLE Event (
           Event_name CHAR(15) NOT NULL,
           Event id CHAR(10) NOT NULL,
           Event_description CHAR(50) NOT NULL,
           Event_venue CHAR(20) NOT NULL,
           Event type CHAR(15) NOT NULL,
           PRIMARY KEY (Event id)
     );
```

Result:

```
CREATE TABLE Result (
           Student_id CHAR(15) NOT NULL,
           Student_name CHAR(20) NOT NULL,
           Event_id CHAR(10) NOT NULL,
           Event_name CHAR(15) NOT NULL
           PRIMARY KEY (Student_id)
     );
Participants:
     CREATE TABLE Participants (
           Registration_id CHAR(10) NOT NULL,
           Name CHAR(15) NOT NULL,
           Branch CHAR(15) NOT NULL,
           Student_id CHAR(10) NOT NULL,
           Student_email CHAR(30) NOT NULL
           PRIMARY KEY (Registration_id)
     );
```