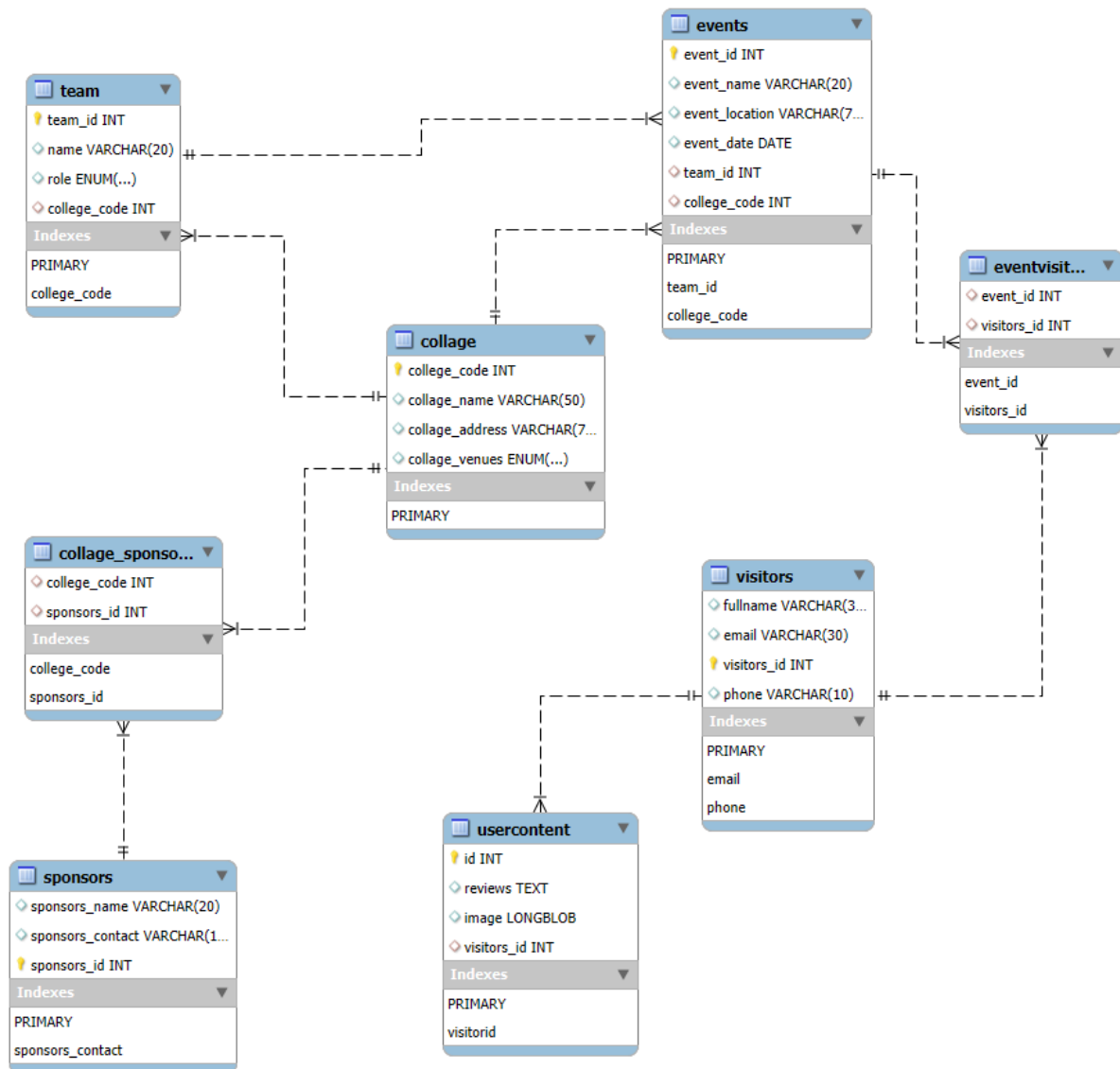


Event Management System

Entity Relationship Diagram:



Create database event_management;

Use event_management;

```

CREATE TABLE collage (
    college_code INT PRIMARY KEY AUTO_INCREMENT,

```

```

college_name VARCHAR(50),
college_address VARCHAR(70),
college_venues ENUM('ground','main, hall','audorium','lab')
);

INSERT INTO college (college_code, college_name, college_address, college_venues) VALUES
(1, 'St. Xavier College', 'Mumbai, Maharashtra', 'main hall'),
(2, 'Ruia College', 'Matunga, Mumbai', 'audorium'),
(3, 'KJ Somaiya College', 'Vidyavihar, Mumbai', 'ground'),
(4, 'Wilson College', 'Charni Road, Mumbai', 'lab'),
(5, 'HR College', 'Churchgate, Mumbai', 'main hall');

//events table

CREATE TABLE events (
    event_id INT PRIMARY KEY AUTO_INCREMENT,
    event_name VARCHAR(20),
    event_location VARCHAR(70),
    event_date DATE
);

INSERT INTO events (event_id, event_name, event_location, event_date, team_id, college_code)
VALUES
(1, 'Tech Fest', 'Mumbai', '2025-01-10', 1, 1),
(2, 'Cultural Day', 'Mumbai', '2025-02-05', 2, 1),
(3, 'Sports Meet', 'Matunga', '2025-02-20', 3, 2),
(4, 'Science Expo', 'Vidyavihar', '2025-03-01', 4, 3),
(5, 'Hackathon', 'Mumbai', '2025-03-15', 5, 1),
(6, 'Debate Competition', 'Churchgate', '2025-03-22', 6, 5),
(7, 'Workshop on AI', 'Mumbai', '2025-04-05', 7, 1),
(8, 'Music Night', 'Mumbai', '2025-04-10', 8, 1),
(9, 'Dance Show', 'Mumbai', '2025-04-20', 9, 1),
(10, 'Farewell Party', 'Mumbai', '2025-05-01', 10, 1);

```

//sponsors table

CREATE TABLE sponsors (

sponsors_id INT PRIMARY KEY AUTO_INCREMENT,

sponsors_name VARCHAR(20),

sponsors_contact VARCHAR(10)

);

INSERT INTO sponsors (sponsors_name, sponsors_contact, sponsors_id) VALUES

('Reliance', '9876543210', 1),

('Tata', '9123456780', 2),

('Infosys', '9988776655', 3),

('Mahindra', '9012345678', 4),

('HDFC Bank', '9090909090', 5);

//visitors table

CREATE TABLE visitors (

fullname VARCHAR(30),

email VARCHAR(30) UNIQUE,

id INT PRIMARY KEY AUTO_INCREMENT,

phone VARCHAR(10) UNIQUE

);

INSERT INTO visitors (fullname, email, visitors_id, phone) VALUES

('Sahil Wadekar', 'sahil@gmail.com', 1, '9991112222'),

('Akash Happe', 'akash@gmail.com', 2, '9991113333'),

('Omkar Yelve', 'omkar@gmail.com', 3, '9991114444'),

('Rina Desai', 'rina@gmail.com', 4, '9991115555'),

('Kunal Patil', 'kunal@gmail.com', 5, '9991116666'),

('Meena Sharma', 'meena@gmail.com', 6, '9991117777'),

('Varun Khanna', 'varun@gmail.com', 7, '9991118888'),

('Pallavi Joshi', 'pallavi@gmail.com', 8, '9991119999'),

('Raj Malhotra', 'raj@gmail.com', 9, '9991120000'),

('Deepa Iyer', 'deepa@gmail.com', 10, '9991131111'),

```
('Nikhil More', 'nikhil@gmail.com', 11, '9991142222'),  
( 'Ananya Rao', 'ananya@gmail.com', 12, '9991153333'),  
( 'Prakash Shetty', 'prakash@gmail.com', 13, '9991164444'),  
( 'Snehal Pawar', 'snehal@gmail.com', 14, '9991175555'),  
( 'Ajay Kumar', 'ajay@gmail.com', 15, '9991186666');
```

```
//team table
```

```
CREATE TABLE team (  
    team_id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(20),  
    role ENUM (  
        'Organizer',  
        'Co_Organizer',  
        'Volunteer',  
        'Coordinator',  
        'Treasurer',  
        'Technical',  
        'Logistics',  
        'Hospitality',  
        'Marketing',  
        'Sponsorship',  
        'Documentation'  
    ),  
    college_code INT,  
    CONSTRAINT fk_college FOREIGN KEY (college_code) REFERENCES college(college_code)  
);  
  
INSERT INTO team (team_id, name, role, college_code) VALUES  
(1, 'Tech Team', 'Organizer', 1),  
(2, 'Cultural Team', 'Co_Organizer', 1),  
(3, 'Sports Team', 'Coordinator', 2),  
(4, 'Science Team', 'Volunteer', 3),
```

```
(5, 'Hackathon Team', 'Technical', 1),  
(6, 'Debate Team', 'Marketing', 5),  
(7, 'AI Workshop Team', 'Documentation', 1),  
(8, 'Music Night Team', 'Hospitality', 1),  
(9, 'Dance Show Team', 'Logistics', 1),  
(10, 'Farewell Party Team', 'Treasurer', 1);
```

```
//college sponsors table
```

```
CREATE TABLE college_sponsors (  
    college_code INT,  
    sponsors_id INT,  
    CONSTRAINT fk_college FOREIGN KEY (college_code) REFERENCES college(college_code),  
    CONSTRAINT fk_sponsor FOREIGN KEY (sponsors_id) REFERENCES sponsors(sponsors_id)  
);
```

```
INSERT INTO college_sponsors (college_code, sponsors_id) VALUES
```

```
(1, 1),  
(1, 2),  
(1, 5),  
(2, 2),  
(2, 3),  
(3, 3),  
(3, 4),  
(4, 4),  
(4, 5),  
(5, 1),  
(5, 5);
```

```
//userGeneratedContent table
```

```
CREATE TABLE usercontent (  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    reviews TEXT,
```

```
image LONGBLOB,
visitors_id INT,
CONSTRAINT fk_visitor FOREIGN KEY (visitors_id) REFERENCES visitors(id)
);
INSERT INTO usercontent (id, reviews, image, visitors_id) VALUES
(1, 'Amazing tech fest! Learned a lot.', NULL, 1),
(2, 'Great cultural day, enjoyed performances.', NULL, 2),
(3, 'Sports meet was thrilling!', NULL, 3),
(4, 'Science expo was well organized.', NULL, 4),
(5, 'Hackathon was intense but fun.', NULL, 5),
(6, 'Debate competition was exciting.', NULL, 6),
(7, 'AI workshop was very informative.', NULL, 7),
(8, 'Music night was lit!', NULL, 8),
(9, 'Dance show was entertaining.', NULL, 9),
(10, 'Farewell party was emotional and memorable.', NULL, 10);
```

//eventvisitors table

```
CREATE TABLE eventvisitors (
event_id INT,
visitors_id INT,
CONSTRAINT fk_event FOREIGN KEY (event_id) REFERENCES events(event_id),
CONSTRAINT fk_visitor FOREIGN KEY (visitors_id) REFERENCES visitors(id),
PRIMARY KEY (event_id, visitors_id)
);
INSERT INTO eventvisitors (event_id, visitors_id) VALUES
(1, 1),
(1, 2),
(2, 3),
(2, 4),
(3, 5),
(3, 6),
```

(4, 7),
(4, 8),
(5, 9),
(5, 10),
(6, 11),
(6, 12),
(7, 13),
(7, 14),
(8, 15);

Functions:

//total events function

DELIMITER \$\$

CREATE FUNCTION total_events()

RETURNS INT

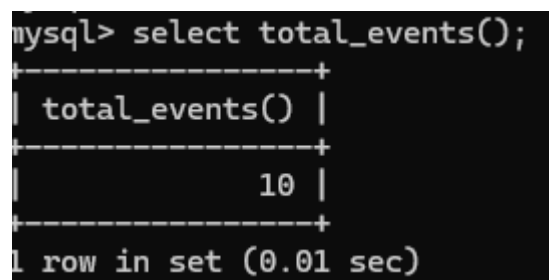
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BEGIN

 RETURN (SELECT COUNT(*) FROM events);

END\$\$

DELIMITER ;



```
mysql> select total_events();
+-----+
| total_events() |
+-----+
|             10 |
+-----+
1 row in set (0.01 sec)
```

Stored procedure :

// college event and visitors count in that event

DELIMITER \$\$

```
CREATE PROCEDURE visitorsCount (IN in_collage_name VARCHAR(30), IN in_event_name VARCHAR(30))
```

```
BEGIN
```

```
    SELECT c.collage_name,  
           e.event_name,  
           COUNT(*) AS visitorscount
```

```
FROM collage c
```

```
INNER JOIN events e ON c.college_code = e.college_code
```

```
LEFT JOIN eventvisitors ev ON ev.event_id = e.event_id
```

```
WHERE c.collage_name = in_collage_name
```

```
    AND e.event_name = in_event_name
```

```
GROUP BY c.collage_name, e.event_name;
```

```
END$$
```

```
DELIMITER ;
```

```
mysql> CALL visitorsCount('St. Xavier College', 'Tech Fest');  
+-----+-----+-----+  
| collage_name | event_name | visitorscount |  
+-----+-----+-----+  
| St. Xavier College | Tech Fest | 2 |  
+-----+-----+-----+  
1 row in set (0.00 sec)  
  
Query OK, 0 rows affected (0.00 sec)
```

```
//total number of events organized by a specific college
```

```
DELIMITER $$
```

```
CREATE PROCEDURE totalEventsByCollege(IN in_college_name VARCHAR(50))
```

```
BEGIN
```

```
    SELECT c.college_name, COUNT(e.event_id) AS total_events
```

```
FROM college c
```

```
LEFT JOIN events e ON c.college_code = e.college_code
```

```
WHERE c.college_name = in_college_name
```

```
GROUP BY c.college_name;
```


END\$\$

DELIMITER ;

```
mysql> CALL totalEventsByCollage('St. Xavier College');
+-----+-----+
| collage_name | total_events |
+-----+-----+
| St. Xavier College |          7 |
+-----+-----+
1 row in set (0.00 sec)
```

Trigger:

//trigger on visitor insertion

```
CREATE TABLE visitor_log (
    log_id INT PRIMARY KEY AUTO_INCREMENT,
    visitors_id INT,
    log_message VARCHAR(100),
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

DELIMITER \$\$

```
CREATE TRIGGER after_visitor_insert
AFTER INSERT ON visitors
FOR EACH ROW
BEGIN
    INSERT INTO visitor_log(visitors_id, log_message)
    VALUES (NEW.id, CONCAT('New visitor added: ', NEW.fullname));
END$$
DELIMITER ;
```

Insertion : INSERT INTO visitors (fullname, email, phone)

VALUES ('Rohit Sharma', 'rohit@gmail.com', '9991199999');

```
mysql> SELECT * FROM visitor_log;
```

log_id	visitors_id	log_message	created_at
1	16	New visitor added: Rohit Sharma	2025-09-21 19:28:12

1 row in set (0.00 sec)