UNIVERSITY OF BARISHAL



PROJECT

COURSE NAME : Database

BATCH: 1

TOPIC : Database designing (Event Management System)

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Batch : 1

Serial No. : 20

DATE OF SUBMISSION: 8th June, 2024

1. Designing (Entity Relationship) ER Diagram

The "Event Management System (EMS)" database is structured to handle all critical components of event planning and management through an event managing company. It provides comprehensive functionality by integrating data about events, venues, organizers, attendees, and other key stakeholders. This integration allows for efficient management of event logistics, participant engagement, financial tracking, and post-event evaluation. Each table is interlinked to ensure data consistency and provide a holistic view of the event management process.

Step-1: Identifying the entities required

A company will conduct one or more event through their event management system. They will accomplish events by providing and storing core and necessary information about **events**, that they provide as their service. They will select **venues** depending on capacity and **organizers** will organize the venue based on **customers** and their **requirements**. The company will keep a track about event **attendees**, event **speakers** or hosts for each event. They will look for **sponsors** for successful completion of events and **vendors** will provide them various services including light or sound systems, catering services and others and will record tasks assigned to the vendors. The company will keep the record for overall **expenses** for an event and will provide it to the customers as per requirement. After successful completion of each event, the company will be able to justify their service and customer satisfaction through **feedbacks** that are provided by the customers and attendees and will further carry out events based on the obtained feedbacks.

Step-2: Identifying the Attributes and Primary key for each Entity

- 1. events (eventID, event_name, date_time, description, status)
- 2. customer (customerID, name, address, contact)
- 3. requirement (requirementID, description)
- 4. venues (**venueID**, venue_name, address, capacity, contact)
- 5. organizers (organizerID, organizer_name, role, contact, email)
- 6. attendees (attendeesID, name, contact)
- 7. speakers (**speakerID**, name, contact)
- 8. sponsors (**sponsorID**, name, contact, email, contribution_type, amount)
- 9. vendors (**vendorID**, name, service type, contact)
- 10. expenses (expenseID, total_amount, payment_type)
- 11. feedback (**feedbackID**, rating, date_time, description)

Step-3: Identifying the Relationship needed

- 1. Venue conduct Events
- 2. Organizers select Venues
- 3. Organizers need– Requirements
- 4. Customer gives Requirements
- 5. Sponsors sponsoring Organizers
- 6. Vendors support Organizers

- 7. Speakers host Events
- 8. Attendees attend Events
- 9. Attendees gives feedback
- 10. Events have Expenses

Step-4: Identifying the Cardinality Ratio and Participation

1. Venue – conduct – Events



2. Organizers – select – Venues



3. Organizers – need– Requirements



4. Customer – give – Requirements



5. Sponsors – sponsoring – Organizers



6. Vendors – support – Organizers



7. Speakers – host – Events



8. Attendees – attend – Events



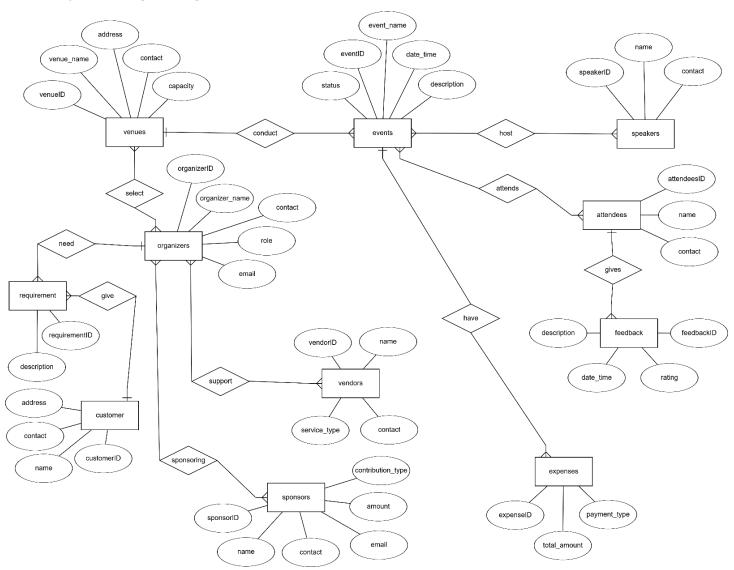
9. Attendees – gives – feedback



10. Events – have – Expenses



Step-5: Drawing the Diagram



2. Reduction to database schema

- events (eventID, event_name, date_time, venueID, customerID, organzerID, description, status)
- 2. customer (customerID, name, attendeesID, address, contact)
- 3. requirement (requirementID, description, organizerID, customerID, eventID)
- 4. venues (venueID, venue name, address, capacity, organizerID, eventID, contact)
- 5. organizers (organizerID, organizer_name, sponsorID, vendorID, role, contact, email)
- 6. attendees (attendeesID, name, role, contact, eventID)
- 7. speakers (**speakerID**, attendeesID, name, contact, eventID)
- 8. sponsors (sponsorID, name, contact, email, contribution type, amount, eventID, organizerID)
- 9. vendors (vendorID, name, service_type, eventID, organizerID, contact)
- 10. expenses (expenseID, eventID, total_amount)
- 11. feedback (feedbackID, eventID, attendeesID, customerID, rating, description)

