Real Talk Database Design (ERD)

1. Overview

This database design supports the Real Talk website by organizing user data, membership information, events, blog content, and user interactions. A relational database model is used to ensure data integrity and scalability as the platform grows. This design represents how data would be structured with a backend system.

2. Entities and Attributes

Membership_Types

- Membership_type_id (PK)
- type_name
- description

Users

- User_id (PK)
- Name
- Email
- Membership_type_id (FK)

Event_Participants

- participant_id (PK)
- user_id (FK)
- event_id (FK)

Events

- event_id (PK)
- event_name
- event_type
- event date
- location

Blog_Posts

- post_id (PK)
- title
- content
- category
- date_posted

Resources

- resource_id (PK)
- title
- description

Contact_Submissions

- contact_id (PK)
- name
- email
- message
- date_submitted

3. Relationships

Membership_Types → Users (1:M) = One membership type can be associated with many users, while each user has only one membership type.

Users → Event_Participant (1:M) = One user can have multiple event participation. records

Events → Event_Participation (1:M) = One event can have many participants.

Users → Events (M:N) = Users can attend multiple events, and events can have multiple users. This many-to-many relationship is resolved through the Event_Participants table.

Users → Contact_Submissions (1:M) = One user can submit multiple contact forms.

Blog_Posts (Standalone Entity) = Blog posts are independent and not directly related to other entities.

Resources (Standalone Entity) = Resources are independent content and are not directly linked to users or events.

4. ERD Diagram