TABLE DESIGN – EDUSPHERE FUSION

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1. Table name: Tbl_users_login

Primary key: id

Field name	Datatype	Key Constraints	Description
user_id	INT AUTO_INCREMENT	Primary Key	Unique identifier for the user
username	VARCHAR(150)	Unique	The user's login username
email	VARCHAR(254)	Unique	The user's email address
password	VARCHAR(128)	Not Null	The user's hashed password
is_active	BOOLEAN	Not Null	Whether the user's account is active
is_normaluser	BOOLEAN	Not Null	Whether the user is a normal user (not a college user)
is_collegeuser	BOOLEAN	Not Null	Whether the user is associated with a college
Is_contentCreator	BOOLEAN	Not Null	Whether the user is a content creator
date_joined	DATETIME	Not Null	The date and time when the account was created

2. Table name: Tbl_ContentCreator

Primary key: id

Foreign key: user_id references Tbl_users_login

Field name	Datatype	Key Constraints	Description
Creator_id	INT AUTO_INCREMENT	Primary Key	Unique identifier for ContentCreator
user_id	INT	Foreign Key	References id from Tbl_users_login
first_name	VARCHAR(30)	Not Null	First name of the creator
last_name	VARCHAR(30)	Not Null	Last name of the creator
phone_number	VARCHAR(15)	Not Null	creator's phone number
country	VARCHAR(100)	Not Null	Country of the creator
profile_photo	VARCHAR(255)	Not Null	Path to the creator's profile photo
cover_photo	VARCHAR(255)	Not Null	Path to the creator's cover photo
registration_date	DATETIME	Not Null	Date and time the creator registered

3. Table name: Tbl_CreatorsCourse

Primary key: course_id

Foreign key: Creator_id references Tbl_ContentCreator

Field name	Datatype	Key Constraints	Description
course_id	INT AUTO_INCREMENT	Primary Key	Unique identifier for the course
Creator_id	INT	Foreign Key	References id from Tbl_ContentCreator

course_name	VARCHAR(255)	Not Null	Name of the course
course_duration	INT	Not Null	Duration of the course in days
course_fee	DECIMAL(10, 2)	Not Null	Fee for the course
course_description	TEXT	Not Null	Description of the course
languages	VARCHAR(255)	Not Null	Languages in which the course is offered
course_level	VARCHAR(20)	Not Null	Level of the course (beginner, intermediate, expert)
certificate_available	BOOLEAN	Not Null	Whether a certificate is available for the course
exam	BOOLEAN	Not Null	Whether the course has an exam
assignment	BOOLEAN	Not Null	Whether the course has assignments
exam_types	VARCHAR(255)	Not Null	Types of exams in the course, if any
certificate_criteria	TEXT	Not Null	Criteria for obtaining a certificate, if available
total_assignments	INT	Not Null	Total number of assignments in the course
course_tags	VARCHAR(255)	Not Null	Tags associated with the course
cover_photo	VARCHAR(255)	Not Null	Path to the course's cover photo

4. Table name: Tbl_Community

Primary key: community_id
Foreign key: creator_id references Tbl_ContentCreator

Field name	Datatype	Key Constraints	Description
community_id	INT	Primary Key	Unique identifier for the community
creator_id	INT	Foreign Key	References Creator_id from Tbl_ContentCreator
community_name	VARCHAR(255)	Not Null	Name of the community
description	TEXT	Not Null	Description of the community
created_at	DATETIME	Not Null	The date and time when the community was created
is_active	BOOLEAN	Not Null	Whether the community is active

5. Table name: Tbl_CommunityMessages

Primary key: message_id
Foreign key: community_id references Tbl_Community

Field name	Datatype	Key Constraints	Description
message_id	INT	Primary Key	Unique identifier for the message
community_id	INT	Foreign Key	References community_id from Tbl_Community

user_id	INT	Foreign Key	References id from Tbl_NormalUser
message_type	ENUM('text', 'image', 'video', 'url', 'emoji', 'voice')	Not Null	Type of the message (text, image, etc.)
content	BLOB	Not Null	Content of the message, binary for multimedia
created_at	DATETIME	Not Null	Timestamp when the message was sent

6. Table name: Tbl_CommunityMembers

Primary key: member_id
Foreign key: community_id references Tbl_Community, user_id references Tbl_NormalUser

Field name	Datatype	Key Constraints	Description
member_id	INT	Primary Key	Unique identifier for the community member
community_id	INT	Foreign Key	References community_id from Tbl_Community
user_id	INT	Foreign Key	References user_id from Tbl_NormalUser
joined_at	DATETIME	Not Null	Date and time the user joined the community

7. Table name: Tbl_CommunityPolls

Primary key: poll_id
Foreign key: community_id references Tbl_Community

Field name	Datatype	Key Constraints	Description
poll_id	INT	Primary Key	Unique identifier for the poll
community_id	INT	Foreign Key	References community_id from Tbl_Community
question	TEXT	Not Null	Poll question
created_at	DATETIME	Not Null	Timestamp when the poll was created
expires_at	DATETIME		Expiry date and time for the poll

8. Table name: Tbl_PollOptions

Primary key: option_id
Foreign key: poll_id references Tbl_CommunityPolls

Field name	Datatype	Key Constraints	Description
option_id	INT	Primary Key	Unique identifier for the poll option

poll_id	INT	Foreign Key	References poll_id from Tbl_CommunityPolls
option_text	TEXT	Not Null	Text of the poll option

9. Table name: Tbl_PollResponses

Primary key: response_id
Foreign key: poll_id references Tbl_CommunityPolls, option_id references
Tbl_PollOptions, user_id references Tbl_NormalUser

Field name	Datatype	Key Constraints	Description
response_id	INT	Primary Key	Unique identifier for the poll response
poll_id	INT	Foreign Key	References poll_id from Tbl_CommunityPolls
option_id	INT	Foreign Key	References option_id from Tbl_PollOptions
user_id	INT	Foreign Key	References user_id from Tbl_NormalUser
responded_at	DATETIME	Not Null	Date and time the response was submitted

10. Table name: Tbl_PublicQuery

Primary key: post_id

Foreign key: user_id references Tbl_NormalUser

Field name	Datatype	Key Constraints	Description
query_id	INT AUTO_INCREMENT	Primary Key	Unique identifier for the public query
user_id	INT	Foreign Key	References id from Tbl_NormalUser
content	TEXT	Not Null	Text content of the query
created_at	DATETIME	Not Null	Date and time when the query was created

11. Table name: Tbl_PublicQuery

Primary key: post_id

Foreign key: user_id references Tbl_NormalUser, query_id reference

Tbl_PublicQuery.

Field name	Datatype	Key Constraints	Description
response_id	INT AUTO_INCREMENT	Primary Key	Unique identifier for the responses
query_id	INT	Foreign Key	References id from Tbl_PublicQuery
user_id	INT	Foreign Key	References id from Tbl_NormalUser
content	TEXT	Not Null	Text content of the query
created_at	DATETIME	Not Null	Date and time when the query was created