# Database Table Design - Social Media Website

# Admin Module

## Table name : tbl\_admin

Primary key : admin\_id

Table Description : Contains details for admin

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| admin\_id | Int | 11 | Primary Key, Auto Increment | Unique admin ID |
| admin\_name | Varchar | 50 | Not Null | Name of the admin |
| admin\_email | Varchar | 50 | Unique, Not Null | Email ID of the admin |
| admin\_password | Varchar | 500 | Not Null | Hashed password for login |

## Table name : tbl\_district

Primary key : district\_id

Table Description : Contains details for district

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| district\_id | Int | 11 | Primary Key, Auto Increment | Unique ID of district |
| district\_name | Varchar | 50 | Not Null, Unique | Name of the district |

## Table name : tbl\_place

Primary key : place\_id

Table Description : Contains details for place

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| place\_id | Int | 11 | Primary Key, Auto Increment | Unique ID of place |
| place\_name | Varchar | 50 | Not Null | Name of the place |
| district\_id | Int | 11 | Foreign Key → tbl\_district | Reference to district ID |

# User Module

## Table name : tbl\_user

Primary key : user\_id

Table Description : Contains details for user

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| user\_id | Int | 11 | Primary Key, Auto Increment | Unique user ID |
| user\_name | Varchar | 30 | Not Null | Name of the user |
| user\_bio | Varchar | 2500 |  | User biography/about |
| user\_gender | Varchar | 10 | Not Null | Gender (M/F/Other) |
| user\_status | Enum | - | Default 'active' | User status (active/banned) |
| user\_dob | Date | - | Not Null | Date of birth |
| user\_contact | Varchar | 11 | Not Null | Contact number |
| user\_email | Varchar | 30 | Unique, Not Null | User email |
| user\_password | Varchar | 2000 | Not Null | Hashed password |
| place\_id | Int | 11 | Foreign Key → tbl\_place | Place reference |
| user\_photo | Varchar | 100 |  | Profile picture |

## Table name : tbl\_post

Primary key : post\_id

Table Description : Contains details for post

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| post\_id | Int | 11 | Primary Key, Auto Increment | Unique post ID |
| post\_caption | Varchar | 50 | Not Null | Post caption/text |
| post\_photo | Varchar | 500 |  | Post image/video file |
| post\_date | Date | - | Not Null | Date of post |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who posted |

## Table name : tbl\_comment

Primary key : comment\_id

Table Description : Contains details for comment

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| comment\_id | Int | 11 | Primary Key, Auto Increment | Unique comment ID |
| comment\_content | Varchar | 50 | Not Null | Comment text |
| comment\_date | Date | - | Not Null | Date of comment |
| user\_id | Int | 11 | Foreign Key → tbl\_user | Commenting user |
| post\_id | Int | 11 | Foreign Key → tbl\_post | Post being commented |

## Table name : tbl\_like

Primary key : like\_id

Table Description : Contains details for like

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| like\_id | Int | 11 | Primary Key, Auto Increment | Unique like ID |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who liked |
| post\_id | Int | 11 | Foreign Key → tbl\_post | Post liked |
| like\_datetime | Datetime | - | Not Null | Time of like |
| type | Varchar | 10 | Default 'post' | Type (post/comment) |

## Table name : tbl\_friends

Primary key : friends\_id

Table Description : Contains details for friends

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| friends\_id | Int | 11 | Primary Key, Auto Increment | Unique friendship ID |
| user\_from\_id | Int | 11 | Foreign Key → tbl\_user | The user who sends request |
| user\_to\_id | Int | 11 | Foreign Key → tbl\_user | The user who receives request |
| friends\_status | Int | 11 | Default 0 | Friendship status (0=pending,1=accepted,2=rejected) |

## Table name : tbl\_chat

Primary key : chat\_id

Table Description : Contains details for chat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| chat\_id | Int | 11 | Primary Key, Auto Increment | Unique chat message ID |
| chat\_datetime | Datetime | - | Not Null | Date & time of the message |
| chat\_content | Varchar | 5000 |  | Text content of the message |
| chat\_file | Text | - |  | Attached file (image, video, doc) |
| user\_from\_id | Int | 11 | Foreign Key → tbl\_user | Sender user ID |
| user\_to\_id | Int | 11 | Foreign Key → tbl\_user | Receiver user ID |

## Table name : tbl\_group

Primary key : group\_id

Table Description : Contains details for group

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| group\_id | Int | 11 | Primary Key, Auto Increment | Unique group ID |
| group\_name | Varchar | 50 | Not Null | Name of the group |
| group\_description | Varchar | 1000 |  | Description/about the group |
| group\_photo | Varchar | 600 |  | Group profile/cover photo |
| user\_id | Int | 11 | Foreign Key → tbl\_user | Creator/owner of the group |
| group\_status | Varchar | 20 | Default 'active' | Status of group |

## Table name : tbl\_groupmembers

Primary key : groupmembers\_id

Table Description : Contains details for groupmembers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| groupmembers\_id | Int | 11 | Primary Key, Auto Increment | Unique ID for membership |
| groupmembers\_status | Int | 11 | Default 0 | Membership status (0=pending,1=approved) |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who is a member |
| group\_id | Int | 11 | Foreign Key → tbl\_group | Group reference |

## Table name : tbl\_groupchat

Primary key : groupchat\_id

Table Description : Contains details for groupchat

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| groupchat\_id | Int | 11 | Primary Key, Auto Increment | Unique group chat message ID |
| groupchat\_datetime | Datetime | - | Not Null | Date & time of message |
| groupchat\_content | Mediumtext | - |  | Message text |
| groupchat\_file | Text | - |  | File shared in the group |
| user\_from\_id | Int | 11 | Foreign Key → tbl\_user | Sender of the message |
| group\_id | Int | 11 | Foreign Key → tbl\_group | Group in which message is sent |

## Table name : tbl\_reports

Primary key : report\_id

Table Description : Contains details for reports

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| report\_id | Int | 11 | Primary Key, Auto Increment | Unique report ID |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who reported |
| post\_id | Int | 11 | Foreign Key → tbl\_post | Reported post |
| reason | Varchar | 50 | Not Null | Reason for report |
| details | Text | - |  | Additional details |
| report\_date | Datetime | - | Not Null | Date and time of report |
| report\_status | Enum | - | Default 'pending' | Status of report |

## Table name : tbl\_group\_reports

Primary key : report\_id

Table Description : Contains details for group reports

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| report\_id | Int | 11 | Primary Key, Auto Increment | Unique group report ID |
| group\_id | Int | 11 | Foreign Key → tbl\_group | Reported group |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who reported |
| reason | Varchar | 255 | Not Null | Reason for group report |
| details | Text | - |  | Additional details |
| report\_date | Timestamp | - | Default current\_timestamp() | Date of report |
| report\_status | Varchar | 50 | Default 'Pending' | Status of group report |

## Table name : tbl\_complaint

Primary key : complaint\_id

Table Description : Contains details for complaint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| complaint\_id | Int | 11 | Primary Key, Auto Increment | Unique complaint ID |
| complaint\_title | Varchar | 50 | Not Null | Title of complaint |
| complaint\_content | Varchar | 1000 | Not Null | Complaint details |
| complaint\_reply | Varchar | 1000 |  | Reply to complaint |
| complaint\_status | Int | 11 | Default 0 | Status (0=pending,1=resolved) |
| complaint\_date | Date | - | Not Null | Date of complaint |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who submitted complaint |

## Table name : tbl\_feedback

Primary key : feedback\_id

Table Description : Contains details for feedback

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| feedback\_id | Int | 11 | Primary Key, Auto Increment | Unique feedback ID |
| feedback\_content | Text | - | Not Null | Feedback content |
| rating\_value | Int | 11 |  | Rating value |
| feedback\_date | Date | - | Not Null | Feedback date |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who gave feedback |

## Table name : tbl\_feedback\_comments

Primary key : comment\_id

Table Description : Contains details for feedback comments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| comment\_id | Int | 11 | Primary Key, Auto Increment | Unique comment ID |
| feedback\_id | Int | 11 | Foreign Key → tbl\_feedback | Feedback reference |
| user\_id | Int | 11 | Foreign Key → tbl\_user | Commenting user |
| comment\_text | Text | - | Not Null | Comment content |
| comment\_date | Date | - | Not Null | Date of comment |

## Table name : tbl\_feedback\_likes

Primary key : like\_id

Table Description : Contains details for feedback likes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Size** | **Constraints** | **Field Description** |
| like\_id | Int | 11 | Primary Key, Auto Increment | Unique like ID |
| feedback\_id | Int | 11 | Foreign Key → tbl\_feedback | Feedback reference |
| user\_id | Int | 11 | Foreign Key → tbl\_user | User who liked feedback |