# Alumni Network Database Schema

## 1. departments

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| department\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| department\_name | VARCHAR(255) | NOT NULL |

## 2. courses

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| course\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| course\_name | VARCHAR(255) | NOT NULL |
| course\_code | VARCHAR(50) | UNIQUE, NOT NULL |
| department\_id | INT | FOREIGN KEY → departments(department\_id) |
| duration\_years | INT |  |

## 3. users

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| user\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| name | VARCHAR(100) | NOT NULL |
| email | VARCHAR(100) | UNIQUE, NOT NULL |
| password | VARCHAR(255) | NOT NULL |
| phone | VARCHAR(15) |  |
| role | ENUM | DEFAULT 'alumni' ('alumni','admin','sub\_admin') |
| department\_id | INT | FOREIGN KEY → departments(department\_id) |
| course\_id | INT | FOREIGN KEY → courses(course\_id) |
| graduation\_year | YEAR |  |
| current\_position | VARCHAR(255) |  |
| certificate | VARCHAR(255) | (file path or URL) |
| is\_active | BOOLEAN | DEFAULT TRUE |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |

## 4. chats

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| chat\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| sender\_id | INT | FOREIGN KEY → users(user\_id) |
| message | TEXT | NOT NULL |
| chat\_type | ENUM | NOT NULL ('class', 'department', 'college') |
| target\_value | VARCHAR(100) | e.g. '2022', 'CSE' |
| sent\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |
| is\_flagged | BOOLEAN | DEFAULT FALSE |

## 5. events

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| event\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| title | VARCHAR(255) | NOT NULL |
| description | TEXT |  |
| event\_type | ENUM | ('event', 'job', 'internship', 'workshop') |
| posted\_by | INT | FOREIGN KEY → users(user\_id) |
| event\_date | DATE |  |
| location | VARCHAR(255) |  |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |

## 6. donations

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| donation\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| user\_id | INT | FOREIGN KEY → users(user\_id) |
| amount | DECIMAL(10,2) |  |
| purpose | VARCHAR(255) |  |
| donated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |

## 7. connections

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| connection\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| user\_id\_1 | INT | FOREIGN KEY → users(user\_id) |
| user\_id\_2 | INT | FOREIGN KEY → users(user\_id) |
| status | ENUM | DEFAULT 'pending' ('pending','connected','rejected') |
| requested\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |

## 8. reports

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| report\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| report\_type | VARCHAR(100) |  |
| generated\_by | INT | FOREIGN KEY → users(user\_id) |
| report\_data | TEXT |  |
| generated\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |

## 9. violations

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Constraints |
| violation\_id | INT | PRIMARY KEY, AUTO\_INCREMENT |
| chat\_id | INT | FOREIGN KEY → chats(chat\_id) |
| flagged\_by | INT | FOREIGN KEY → users(user\_id) |
| reason | TEXT |  |
| action\_taken | ENUM | ('deleted', 'warned', 'banned') |
| flagged\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP |