

Organizational Networking Platform – Database Schema

Link to the Schema (drawDB website) :

<https://www.drawdb.app/editor?shareId=705662179ae78d489126e93e25fb9d7>

Table:

1. User_Details

Columns:

- user_id - INTEGER - PRIMARY KEY, AUTO INCREMENT
- user_name - VARCHAR(255) - NOT NULL, UNIQUE
- email - VARCHAR(255) - NOT NULL, UNIQUE
- password - VARCHAR(255) - NOT NULL
- created_at - DATETIME

Foreign Keys:

- None

2. Password_Recovery

Columns:

- request_id - INTEGER - PRIMARY KEY, NOT NULL, UNIQUE
- user_id - INTEGER - NOT NULL
- token - CHAR - NOT NULL, UNIQUE
- expiry_time - DATETIME
- request_time - DATETIME
- token_status - CHAR

Foreign Keys:

- user_id → User_Details(user_id)

3. User_Connection

Columns:

- follower_id - INTEGER - NOT NULL
- user_id - INTEGER - NOT NULL
- conn_id - INTEGER - NOT NULL (PRIMARY KEY)

Foreign Keys:

- follower_id → User_Details(user_id)
- user_id → User_Details(user_id)

4. Organization

Columns:

- org_id - INTEGER - PRIMARY KEY, NOT NULL
- org_name - VARCHAR(255) - NOT NULL

Foreign Keys:

- None

5. Position

Columns:

- role_id - INTEGER - PRIMARY KEY, NOT NULL
- org_id - INTEGER - NOT NULL
- position_title - VARCHAR(255) - NOT NULL
- parent_role_id - INTEGER - NULLABLE

Foreign Keys:

- org_id → Organization(org_id)
- parent_role_id → Position(role_id)

6. User_Organization

Columns:

- user_id - INTEGER - NOT NULL
- org_id - INTEGER - NOT NULL
- position_id - INTEGER
- membership_type - VARCHAR(255)

Primary Key: (user_id, org_id)

Foreign Keys:

- user_id → User_Details(user_id)
- org_id → Organization(org_id)
- position_id → Position(role_id)

7. User_Request

Columns:

- user_id - INTEGER - NOT NULL
- org_id - INTEGER - NOT NULL
- status - VARCHAR(20)
- created_at - TIMESTAMP - NOT NULL

Primary Key: (user_id, org_id, created_at)

Foreign Keys:

- user_id → User_Details(user_id)
- org_id → Organization(org_id)

Relationships:

Entity 1	Entity 2	Relationship Type
User_Details	User_Details	Many-to-Many (M:N)
User_Details	Organization	Many-to-Many (M:N)
User_Details	Position	One-to-One (1:1)
User_Details	Password_Recovery	One-to-Many (1:M)
User_Details	User_Request	One-to-Many (1:N)
Organization	Position	One-to-Many (1:M)
Organization	User_Request	One-to-Many (1:N)
Position	User_Organization	One-to-Many (1:M)
User_Organization	User_Details	Many-to-One (M:1)
User_Organization	Organization	Many-to-One (M:1)

