1. User:
   * Attributes: username, email, password, registration\_date
   * Relationships: creates Posts, writes Comments, subscribes to Subreddits
2. Post:
   * Attributes: title, content, timestamp, upvotes, downvotes
   * Relationships: created by User, belongs to Subreddit, has Comments
3. Comment:
   * Attributes: content, timestamp, upvotes, downvotes
   * Relationships: written by User, belongs to Post, can be a reply to another Comment
4. Subreddit:
   * Attributes: name, description, creation\_date, subscriber\_count
   * Relationships: contains Posts, subscribed by Users, has Moderators
5. Moderator (which is a specialized User):
   * Attributes: (inherits attributes from User)
   * Relationships: moderates Subreddits

The relationships in more detail:

* A User can create multiple Posts, but each Post is created by one User.
* A User can write multiple Comments, but each Comment is written by one User.
* A User can subscribe to multiple Subreddits, and a Subreddit can have multiple subscribers (many-to-many relationship).
* A Post belongs to one Subreddit, but a Subreddit can have multiple Posts.
* A Comment belongs to one Post, but a Post can have multiple Comments.
* A Comment can be a reply to another Comment, creating a hierarchical structure.
* A Moderator is a specialized User who can moderate one or multiple Subreddits.

Entity Relationship data ModelDiagram, schematic

Description automatically generated

Graphviz – DOT code:

Graphical user interface

Description automatically generated

DBML:

