

Team 24

Members:

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DATABASE DESIGN

Explanation for each entity set and relationship, write a short description in plain English of what it represents or models

Entity sets:

1. Users: has ID number (PK), email, username, password, points, created_at, and avatar_url (image url). Stores user data
2. Posts: has ID number (unique), title, content, created_at, and updated_at. Stores Post data
3. Comments: has ID (PK), content, created_at, and updated_at. Stores comment data in a Post.
4. Channels: has ID (PK), name, and banner_url(image banner). Channel is also represented by unique id. Stores channel data

Relationships:

1. Own: has a channel_id and user_id. Stores who owns which channels
2. Moderate: has a channel_id and user_id. Stores who moderates which channels
3. Subscribe: has a channel_id and user_id. Stores who subscribes to which channels
4. Contain: has a channel_id and post_id. Stores which channels contain which posts
5. Create_Post: has post_id, user_id, and points. Stores which posts are created by which users. Also stores the number of points a post has.
6. Create_Com: has comment_id, user_id, and points. Stores which comments are created by which users. Also stores the number of points a comment has.
7. Vote_Post: has post_id, user_id, and up_down. Stores which posts are voted up or down by which users
8. Vote_Com: has comment_id, user_id, and up_down. Stores which comments are voted up or down by which users
9. Save: has user_id and post_id. Users can share a post to save it so that they can read the post again later.

10. Have: has post_id (parent) and comment_id (child). Stores which posts have which comment replies
11. Have_Com: has comment_id1 (parent) and comment_id2 (child). Stores which comments have which comment replies

Convert your ERD into schemas

Schemas

Users(id, email, username, password, created_at, avatar_url)

Posts(id, title, content, created_at, updated_at)

Comments(id, content, created_at, updated_at)

Channels(id, name, banner_url)

Create_Post(user_id, post_id, points)

Create_Com(user_id, com_id, points)

Have(post_id, com_id)

Have_Com(parent_id, child_id)

Save(user_id, post_id)

Vote_Post(user_id, post_id, up_down)

Vote_Com(user_id, com_id, up_down)

Contain(post_id, channel_id)

Own(user_id, channel_id)

Moderate(user_id, channel_id)

Subscribe(user_id, channel_id)

Table Screenshots

| | id | email | username | password | created_at | avatar_url |
|---|------|-------------------|---------------|------------|---------------------|---------------|
| ▶ | 1 | email1@sjsu.edu | blue01sky02 | password2 | 2019-10-13 02:00:00 | www.url1.com |
| | 10 | email10@sjsu.edu | army83 | password11 | 2019-09-01 01:30:00 | www.url10.com |
| | 11 | email11@yahoo.com | roseGarden | password12 | 2019-08-14 10:05:00 | www.url11.com |
| | 12 | email12@gmail.com | wisdom11 | password13 | 2019-08-10 09:00:00 | www.url12.com |
| | 13 | email13@sjsu.edu | purpleSea | password14 | 2019-08-06 01:35:00 | www.url13.com |
| | 14 | email14@gmail.com | ocean94 | password15 | 2019-08-02 04:30:00 | www.url14.com |
| | 15 | email15@gmail.com | paradiseblue3 | password16 | 2019-07-31 03:10:00 | www.url15.com |
| | 16 | email16@gmail.com | minimouse | password16 | 2019-10-03 06:50:00 | www.url16.com |
| | 2 | email2@yahoo.com | cookie-09 | password3 | 2019-10-05 03:05:00 | www.url2.com |
| | 3 | email3@sjsu.edu | angnguyen123 | password4 | 2019-10-01 04:01:00 | www.url3.com |
| | 4 | email4@gmail.com | an06nguyen | password5 | 2019-09-30 05:02:00 | www.url4.com |
| | 5 | email5@gmail.com | nhinguyen73 | password6 | 2019-09-28 01:10:00 | www.url5.com |
| | 6 | email6@yahoo.com | bunny46 | password7 | 2019-09-20 05:15:00 | www.url6.com |
| | 7 | email7@gmail.com | blue123car | password8 | 2019-09-14 06:02:00 | www.url7.com |
| | 8 | email8@gmail.com | dorgi001 | password9 | 2019-09-07 01:20:00 | www.url8.com |
| | 9 | email9@sjsu.edu | diamond07! | password10 | 2019-09-03 07:00:00 | www.url9.com |
| • | NULL | NULL | NULL | NULL | NULL | NULL |

Users 1 ×

| | id | title | content | created_at | updated_at |
|---|------|-----------------|-------------------------------------------|---------------------|---------------------|
| ▶ | 1 | school | class starts at 9 am | 2019-09-14 02:02:00 | 2019-09-14 02:12:00 |
| | 10 | midterm | studying for midterm next week. Fighting! | 2019-10-10 05:40:00 | 2019-10-10 05:50:00 |
| | 11 | dinner time | In and out. Yay!!!! | 2019-10-10 01:20:00 | 2019-10-10 02:00:00 |
| | 12 | my weekend | doing 3 team proejcts | 2019-09-20 05:02:00 | 2019-09-20 05:12:00 |
| | 13 | cool me down | orange just, please! | 2019-10-12 02:10:00 | 2019-10-12 02:35:00 |
| | 14 | autumn | The scenery is pretty today | 2019-08-06 01:35:00 | 2019-08-06 02:05:00 |
| | 15 | 3:am | cannot sleep at all | 2019-09-07 01:20:00 | 2019-09-07 01:30:00 |
| | 2 | food again! | I love Korean food | 2019-09-14 06:02:00 | 2019-09-14 06:08:00 |
| | 3 | last vacation | I went to Disneyland | 2019-08-02 03:30:00 | 2019-08-02 03:50:00 |
| | 4 | favorite season | Fall is here! | 2019-07-30 03:10:00 | 2019-07-30 03:35:00 |
| | 5 | on the way | It's raining, taking bus home | 2019-10-11 01:20:00 | 2019-11-10 01:25:00 |
| | 6 | cousin's pet | The cat is so cute! | 2019-07-10 01:00:00 | 2019-07-10 01:20:00 |
| | 7 | Noodle time | Eating ramen is the best for cold day | 2019-09-14 02:02:00 | 2019-09-14 02:12:00 |
| | 8 | Good morning | Startbuck, starting a good day | 2019-08-14 05:05:00 | 2019-00-14 05:10:00 |
| | 9 | Halloween | let's go trick or treat | 2019-09-20 08:02:00 | 2019-09-20 08:15:00 |
| • | NULL | NULL | NULL | NULL | NULL |

Posts 1 ×

| | id | content | created_at | updated_at |
|---|------|------------------------------------------------------|---------------------|---------------------|
| ▶ | 1 | same here | 2019-10-12 02:10:00 | 2019-10-12 02:35:00 |
| | 10 | I want some | 2019-10-05 03:05:00 | 2019-10-05 03:25:00 |
| | 11 | Good Luck!!! | 2019-08-02 04:30:00 | 2019-08-02 04:40:00 |
| | 12 | Yup, it's the best | 2019-09-14 02:02:00 | 2019-09-14 02:12:00 |
| | 13 | My kids are waiting for that! | 2019-08-02 03:30:00 | 2019-08-02 03:50:00 |
| | 14 | I also have two midterms | 2019-10-10 05:40:00 | 2019-10-10 05:50:00 |
| | 15 | I just got out from there | 2019-09-20 07:05:00 | 2019-09-20 07:20:00 |
| | 16 | I am completly unknown to such stuff. Whom w... | 2019-10-15 02:29:36 | 2019-10-15 02:29:36 |
| | 17 | It really covers all aspects of computer science.... | 2019-10-15 05:29:36 | 2019-10-15 05:29:36 |
| | 18 | Please do | 2019-10-15 08:29:36 | 2019-10-15 08:29:36 |
| | 19 | TABLE OF CONTENTS: ... | 2019-10-15 09:29:36 | 2019-10-15 09:29:36 |
| | 2 | Why??? | 2019-10-10 01:20:00 | 2019-10-10 02:00:00 |
| | 20 | Thanks ! | 2019-10-15 09:45:36 | 2019-10-15 09:45:36 |
| | 21 | The head jerk gets me everytime | 2019-10-14 05:29:36 | 2019-10-14 05:29:36 |
| | 22 | Back... and to the left | 2019-10-14 06:29:36 | 2019-10-14 06:29:36 |
| | 23 | "Never mind, I figured it out" | 2019-10-10 08:29:36 | 2019-10-10 08:29:36 |
| | 24 | How many SO users does it take to change a lig... | 2019-10-10 08:35:36 | 2019-10-10 08:35:36 |
| | 25 | Lol | 2019-10-10 09:45:36 | 2019-10-10 09:45:36 |
| | 26 | Artificial Intelligence | 2019-10-15 09:46:36 | 2019-10-15 09:46:36 |
| | 27 | Networks | 2019-10-15 09:47:36 | 2019-10-15 09:47:36 |
| | 28 | Database | 2019-10-15 09:48:36 | 2019-10-15 09:48:36 |
| | 29 | Comp Architecture | 2019-10-15 09:49:36 | 2019-10-15 09:49:36 |
| | 3 | Congratulation! | 2019-08-14 05:05:00 | 2019-00-14 05:10:00 |
| | 30 | Formal Languages | 2019-10-15 09:50:36 | 2019-10-15 09:50:36 |
| | 31 | Data Structures and Algorithms | 2019-08-06 01:35:00 | 2019-08-06 01:35:00 |
| | 32 | Python | 2019-08-06 01:35:00 | 2019-08-06 01:35:00 |
| | 33 | Discrete Math | 2019-08-06 01:35:00 | 2019-08-06 01:35:00 |
| | 34 | Game Design | 2019-08-06 01:35:00 | 2019-08-06 01:35:00 |
| | 35 | Operating Systems | 2019-08-06 01:35:00 | 2019-08-06 01:35:00 |
| | 4 | wow, busy weekend | 2019-08-10 07:00:05 | 2019-08-10 07:10:05 |
| | 5 | take care | 2019-07-30 03:10:00 | 2019-07-30 03:35:00 |
| | 6 | yeah, I am excited, too | 2019-09-20 05:02:00 | 2019-09-20 05:12:00 |
| | 7 | Aww, it's so adorable! | 2019-09-14 06:02:00 | 2019-09-14 06:08:00 |
| | 8 | Who did you go with? | 2019-09-07 01:20:00 | 2019-09-07 01:30:00 |
| | 9 | Have a nice day! | 2019-08-06 01:35:00 | 2019-08-06 02:05:00 |
| ★ | NULL | NULL | NULL | NULL |

Comments 1 ×

| | id | name | banner_url |
|---|------|-------------|------------------|
| ▶ | 1 | programming | www.banner1.com |
| | 10 | myChannel10 | www.banner10.com |
| | 11 | myChannel11 | www.banner11.com |
| | 12 | myChannel12 | www.banner12.com |
| | 13 | myChannel13 | www.banner13.com |
| | 14 | myChannel14 | www.banner14.com |
| | 15 | myChannel15 | www.banner15.com |
| | 16 | myChannel16 | www.banner16.com |
| | 2 | science | www.banner2.com |
| | 3 | cs157A | www.banner3.com |
| | 4 | cs157B | www.banner4.com |
| | 5 | cs157C | www.banner5.com |
| | 6 | myChannel6 | www.banner6.com |
| | 7 | myChannel7 | www.banner7.com |
| | 8 | myChannel8 | www.banner8.com |
| | 9 | myChannel9 | www.banner9.com |
| * | NULL | NULL | NULL |

Channels 1 ×

| | user_id | post_id | points |
|---|---------|---------|--------|
| ▶ | 1 | 5 | 10 |
| | 1 | 8 | 5 |
| | 10 | 15 | 50 |
| | 2 | 10 | 20 |
| | 2 | 9 | 10 |
| | 3 | 11 | 25 |
| | 3 | 12 | 5 |
| | 4 | 3 | 30 |
| | 5 | 2 | 1 |
| | 6 | 1 | 2 |
| | 7 | 14 | 10 |
| | 8 | 13 | 20 |
| | 8 | 4 | 50 |
| | 9 | 6 | 35 |
| | 9 | 7 | 20 |
| * | NULL | NULL | NULL |

Create_Posts 1 ×

| | user_id | com_id | points |
|---|---------|--------|--------|
| ▶ | 1 | 1 | 0 |
| | 1 | 2 | -5 |
| | 1 | 3 | 10 |
| | 1 | 4 | -15 |
| | 10 | 13 | -10 |
| | 11 | 14 | -15 |
| | 12 | 15 | -20 |
| | 3 | 5 | 20 |
| | 3 | 6 | 0 |
| | 3 | 7 | 5 |
| | 4 | 8 | 10 |
| | 5 | 9 | 15 |
| | 7 | 10 | 20 |
| | 8 | 11 | 0 |
| | 9 | 12 | -5 |
| * | NULL | NULL | NULL |

Create_Com 1 ×

| | post_id | com_id |
|---|---------|--------|
| ▶ | 1 | 1 |
| | 1 | 2 |
| | 1 | 3 |
| | 2 | 4 |
| | 2 | 5 |
| | 2 | 6 |
| | 3 | 7 |
| | 3 | 8 |
| | 3 | 9 |
| | 4 | 10 |
| | 4 | 11 |
| | 4 | 12 |
| | 6 | 13 |
| | 6 | 14 |
| | 6 | 15 |
| * | NULL | NULL |

Have 1 ×

| | parent_id | child_id |
|---|-----------|----------|
| ▶ | 16 | 17 |
| | 17 | 18 |
| | 18 | 19 |
| | 21 | 22 |
| | 23 | 24 |
| | 23 | 25 |
| | 26 | 27 |
| | 26 | 28 |
| | 29 | 30 |
| | 10 | 26 |
| | 11 | 29 |
| | 1 | 31 |
| | 2 | 32 |
| | 3 | 33 |
| | 4 | 34 |

Have_Com 1 ×

| | user_id | post_id |
|---|---------|---------|
| ▶ | 1 | 1 |
| | 1 | 2 |
| | 1 | 3 |
| | 2 | 1 |
| | 2 | 2 |
| | 2 | 3 |
| | 3 | 10 |
| | 3 | 11 |
| | 3 | 12 |
| | 4 | 14 |
| | 4 | 8 |
| | 4 | 9 |
| | 5 | 1 |
| | 5 | 2 |
| | 5 | 3 |
| * | NULL | NULL |

Save 1 ×

| | user_id | post_id | up_down |
|---|---------|---------|---------|
| ▶ | 1 | 1 | 1 |
| | 1 | 2 | 0 |
| | 1 | 3 | 1 |
| | 2 | 1 | 0 |
| | 2 | 2 | 1 |
| | 2 | 3 | 0 |
| | 3 | 10 | 1 |
| | 3 | 11 | 0 |
| | 3 | 12 | 1 |
| | 4 | 14 | 0 |
| | 4 | 7 | 0 |
| | 4 | 9 | 0 |
| | 5 | 1 | 1 |
| | 5 | 2 | 1 |
| | 5 | 3 | 1 |
| ★ | NULL | NULL | NULL |

Vote_Post 1 ×

| | user_id | com_id | up_down |
|---|---------|--------|---------|
| ▶ | 1 | 1 | 1 |
| | 1 | 2 | 0 |
| | 1 | 3 | 1 |
| | 2 | 1 | 0 |
| | 2 | 2 | 1 |
| | 2 | 3 | 0 |
| | 3 | 10 | 1 |
| | 3 | 11 | 0 |
| | 3 | 12 | 1 |
| | 4 | 14 | 0 |
| | 4 | 7 | 0 |
| | 4 | 9 | 0 |
| | 5 | 1 | 1 |
| | 5 | 2 | 1 |
| | 5 | 3 | 1 |
| ★ | NULL | NULL | NULL |

Vote_Com 1 ×

| | channel_id | post_id |
|---|------------|---------|
| ▶ | 1 | 2 |
| | 1 | 4 |
| | 1 | 5 |
| | 2 | 3 |
| | 2 | 6 |
| | 4 | 1 |
| | 5 | 7 |
| | 7 | 8 |
| | 8 | 9 |
| | 10 | 10 |
| | 11 | 11 |
| | 12 | 12 |
| | 7 | 13 |
| | 13 | 14 |
| | 7 | 15 |

Contain 1 ×

| | user_id | channel_id |
|---|---------|------------|
| ▶ | 2 | 2 |
| | 2 | 4 |
| | 3 | 5 |
| | 4 | 3 |
| | 1 | 6 |
| | 5 | 1 |
| | 6 | 7 |
| | 6 | 8 |
| | 7 | 9 |
| | 7 | 10 |
| | 8 | 11 |
| | 10 | 12 |
| | 11 | 13 |
| | 12 | 14 |
| | 14 | 15 |

Own 1 ×

| | user_id | channel_id |
|---|---------|------------|
| ▶ | 1 | 2 |
| | 1 | 3 |
| | 2 | 2 |
| | 2 | 3 |
| | 3 | 6 |
| | 4 | 6 |
| | 7 | 5 |
| | 5 | 7 |
| | 7 | 7 |
| | 8 | 10 |
| | 11 | 10 |
| | 11 | 12 |
| | 9 | 11 |
| | 14 | 15 |
| | 15 | 15 |

Moderate 1 ×

| | user_id | channel_id |
|---|---------|------------|
| ▶ | 6 | 2 |
| | 6 | 3 |
| | 7 | 2 |
| | 7 | 3 |
| | 8 | 6 |
| | 9 | 6 |
| | 12 | 5 |
| | 10 | 7 |
| | 12 | 7 |
| | 13 | 10 |
| | 1 | 10 |
| | 1 | 12 |
| | 14 | 11 |
| | 2 | 15 |
| | 3 | 15 |

Subscribe 1 ×