Team 24
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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, avartar_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 ✕

Channels 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

Create_Posts 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_Com 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

Have 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_Com 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

Save 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

Vote_Post 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_Com 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

Contain 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

Own 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

Moderate 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

Subscribe 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