

0.1 Database

0.1.1 The Users Class

The users table represents the users, who form groups, own pages, make posts, and attend events.

u_id This uniquely identifies the user

f_name The user's first name, to display on membership rosters

l_name The user's last name, to display on membership rosters

user_name This uniquely identifies the user, to display on pages and posts

phone The user's phone number, to send text-messages, and display on membership rosters

email The email to which notifications and invitations are sent

pass_word A 20 character array to hold the user's hashed pass word

hash_str A 20 character array for the hash used to encrypt the user's password

Figure 1: UML class description

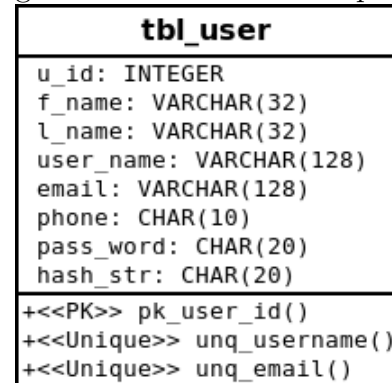


Figure 2: Sample contents of the users table

u_id	f_name	l_name	user_name	email	phone
1	Tyrone	Insley	insl3318	insl3318@vandals.uidaho.edu	2083014065
2	Sofia	Quarterman	quar5690	quar5690@vandals.uidaho.edu	2088854065
3	Nelson	Triche	tric9902	tric9902@uidaho.edu	2088825381
4	Guy	Volker	volk4622	volk4622@uidaho.edu	2088826147
5	Clayton	Sherk	sher1676	sher1676@uidaho.edu	2088829891
6	Nelson	Bamber	bamb6464	bamb6464@uidaho.edu	2088826156
7	Darren	Henne	henn5147	henn5147@uidaho.edu	2088822405
8	Poplar	Poplar	popl9007	popl9007@uidaho.edu	2088822648
9	Jami	Suazo	suaz9038	suaz9038@uidaho.edu	2088826122
10	Dollie	Ackerley	acke7776	acke7776@yahoo.com	2088835727

0.1.2 The Groups Class

The groups table represents the groups, that have membership rosters, own pages, host forums, and host events.

g_id This uniquely identifies the group

g_name The name of the group

acronym The group's acronym

category The group's category: academic, honorary, community_service, civic_action, cultural, ethnic, graduate, professional, greek_life, career, recreational, sport, special_interest, spiritual, or religious

email The email users outside the group use to get in contact with the group

Figure 3: UML class description

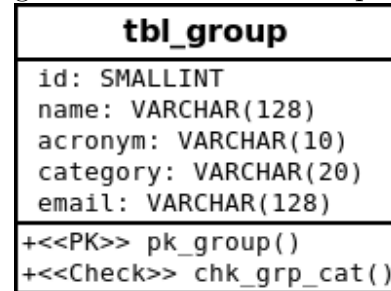


Figure 4: Sample contents of the groups table

g_id	g_name	acronym	category	email
1	Ambitious Women of Excellence, Strength	AWESUM	special_interest	awesum_ui@yahoo.com
2	Ecology and Conservation Biology Club	ECB	academic	nrecb-club@uidaho.edu
3	Tau Beta Pi	TBP	honorary	awixom@vandals.uidaho.edu
4	Lutheran Campus Ministry	LCM	religious	lcm@ccc.org

0.1.3 The Membership Associative Table

Each row in the membership table represents a member, a group they are in, and the status of the member.

u_id The ID of the user

g_id The ID of the group

status The status of the user within the group, limited to common statuses such as, member, officer, and sponsor. The database-wide roles (ASUI, ITS) will be implemented through GRANT statements.

The ID numbers were used to speed the query transactions, but through the use of the appropriate query, it's possible to get more human-readable results. A straight transliteration of the membership table might include the user-name, the group name, and the membership status. I would need to use information from three tables: the user table, the group table, and the membership table. Then I would make sure I only got the entries where the u_ids matched, and the g_ids matched. `SELECT u.user_name, g.g_name, m.status`

```
FROM gus.tbl_membership m
INNER JOIN gus.tbl_group g
INNER JOIN gus.tbl_user u
ON g.g_id=m.g_id AND u.u_id=m.u_id;
```

Figure 5: UML class description

tbl_membership	
u_id: INTEGER	
g_id: SMALLINT	
status: VARCHAR(10)	
+<<PK>> pk_membership(u_id,g_id)	
+<<FK>> fk_mem_user()	
+<<FK>> fk_mem_group()	

Figure 6: Sample contents of the membership table

u_id	g_id	status
1	1	member
1	2	officer
2	1	officer
2	2	member
3	1	member
4	1	sponsor
5	2	sponsor
7	3	sponsor
8	3	officer

Figure 7: Human-readable version of the membership table

user_name	g_name	status
insl3318	Ambitious Women of Excellence, Strength, Unity, and Motivation	member
quar5690	Ambitious Women of Excellence, Strength, Unity, and Motivation	officer
tric9902	Ambitious Women of Excellence, Strength, Unity, and Motivation	member
volk4622	Ambitious Women of Excellence, Strength, Unity, and Motivation	sponsor
insl3318	Ecology and Conservation Biology Club	officer
quar5690	Ecology and Conservation Biology Club	member
sher1676	Ecology and Conservation Biology Club	sponsor
henn5147	Tau Beta Pi	sponsor
popl9007	Tau Beta Pi	officer