
E-VOTING SYSTEM

TA : HESHAM AYMAN

Team ID:135

Teams Members:

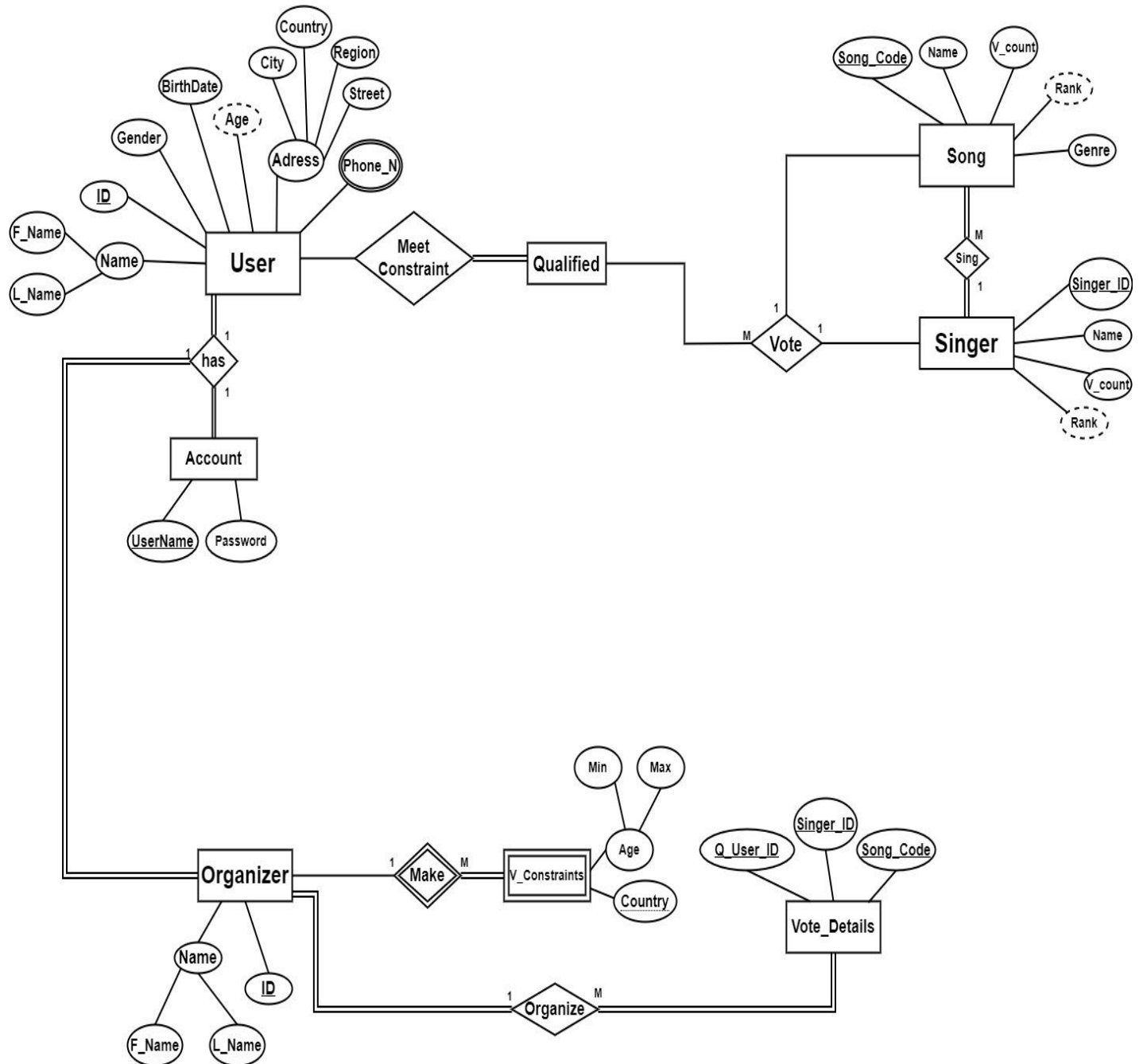
- | | |
|-------------|---------------------------|
| Section: 24 | ● محمد حمد ابراهيم محمد |
| Section: 23 | ● محمد حسن يحي احمد |
| Section: 22 | ● محمد أبو العلا علي محمد |
| Section: 18 | ● عمر العزوني محمد محمود |
| Section: 7 | ● باسل شريف محمود نجيب |
| Section: 23 | ● محمد حسن جمال حسن |

E-Voting System

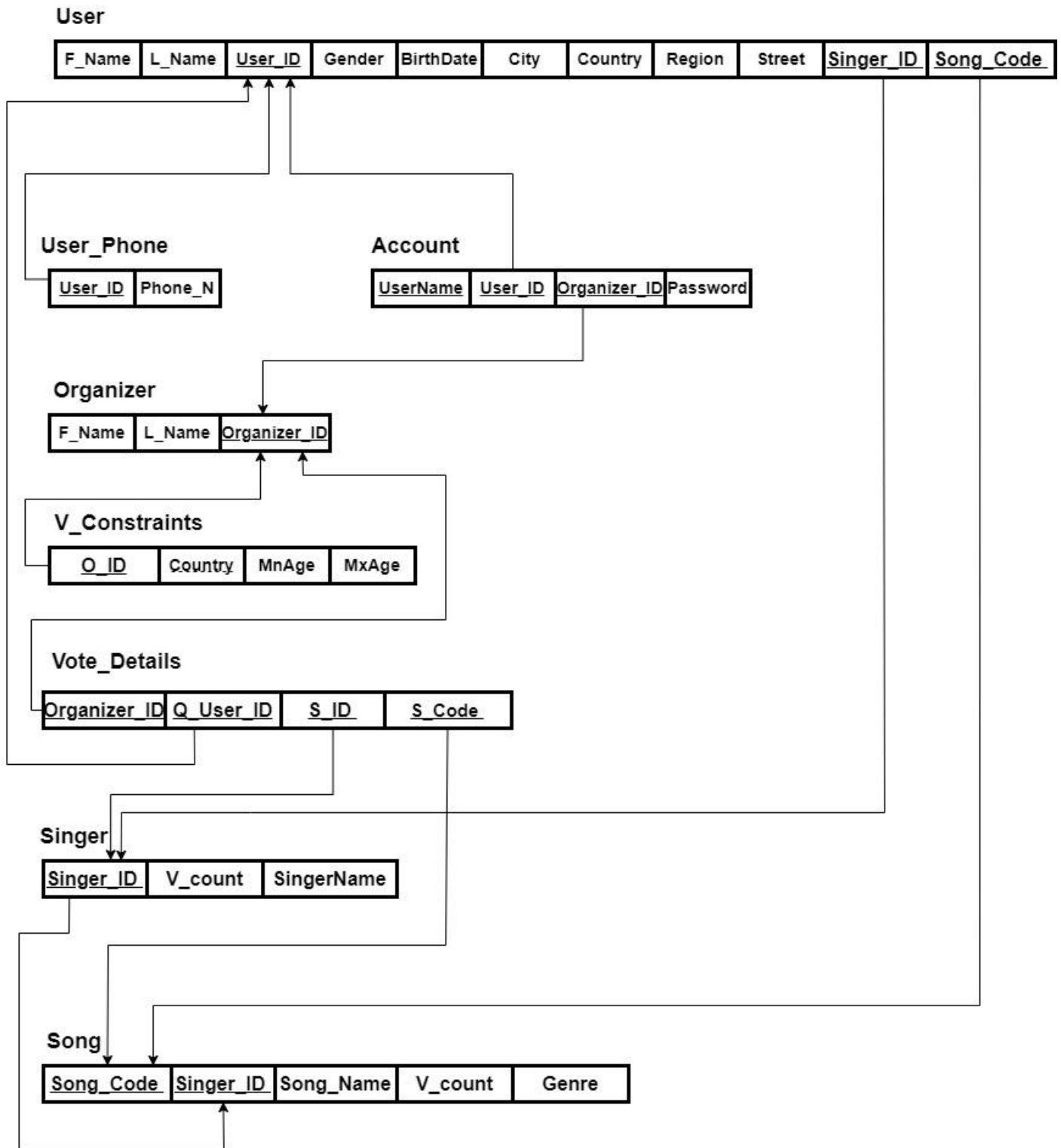
A database description in the simplest possible way of how an E-voting about singers and their top voted songs in a way that votes can be constrained and limited to target a specific category of listeners so only them can vote according to their age and region where;

- ❖ Each user must have an account where each account has a unique username as the organizers.
- ❖ Each organizer can put constraints on who can participate in the voting process as to target a category of listeners of the same age and region according to his will.
- ❖ Only the users who meet the constraints are qualified and can vote for their favorite artist and favorite song of the artist.
- ❖ Each organizer can manage the votes and see vote details including Users who voted and which singer their vote went to and their favorite song of that artist.
- ❖ The data of each singer including name and a unique ID is stored and the names, codes and genres. So the voters can have a variety to choose from.

Entity Relationship Diagram



Schema



Relationships:

Accounts

- Each user has an account, and each account is used by only one user

User		account
1	::	1
1	::	1
<hr/>		
1	::	1

- Each organizer has an account, and each account can be owned by one organizer.

Organizer		account
1	::	1
1	::	1
<hr/>		
1	::	1

Constraints

- Each organizer can put many constraints (range age and region of users who are wanted to be involved in the voting). But each set of constraints is put by only one organizer.

Organizer		Constraints
1	::	M
1	::	1
<hr/>		
1	::	M

- Each user is qualified to vote when he meets the age and region constraints if specified

Vote

- Qualified users are allowed to give their votes for their favorite artist in a way that each user is allowed to vote for one artist, but each artist can be voted for by many qualified users.

User		Artist
1	::	1
M	::	1
<hr/>		
M	::	1

- Qualified users who vote for the artists can vote for their favorite song for that artist, so each artist can be voted for by many qualified users, but each user must vote for one artist and one song for that artist.

User		Song
1	::	1
1	::	M
<hr/>		
1	::	M

- Organizers can organize and see the vote details including the users and the artist whom they voted for, and their favorite song featured by that artist and as the organizer may be managing more than one vote, but each vote is managed by one organizer.

Organizer		Vote details
1	::	M
1	::	1
<hr/>		
1	::	M

Sing

- Each artist can sing lots of songs, but each song can be sung by one artist which makes it a many to one relationship.

Singer		Song
1	::	M
1	::	1
<hr/>		
1	::	M