Poll App DB Schemas and Views

User	
ID	INT, PRIMARY KEY
Google ID	INT, UNIQUE
Google Token	INT, UNIQUE
Email	STRING, UNIQUE
Username	STRING, UNIQUE
Date Created	DATETIME

- Email, Google ID and token retrieved through Google sign-in
- Username provided by user

Poll	
ID	INT, PRIMARY KEY
Title	STRING
Creator ID	INT, FOREIGN KEY (USER)
Active	BOOLEAN
Private	BOOLEAN
Access Code	INT, UNIQUE
Choices	STRING[]
Date Created	DATETIME

- Creator ID to reference user who created poll (User.username)
- Active: true -> ongoing, false -> finished
- Private: true -> access code randomly generated, false -> access code = -1
- Access code: random or -1 based on privacy
- Choices: a string array containing each choice in the poll

Vote	
ID	INT, PRIMARY KEY
User ID	INT, FOREIGN KEY (USER)
Poll ID	INT, FOREIGN KEY (POLL)
Choice	STRING
Date Voted	DATETIME

Poll Result	
ID	INT, PRIMARY KEY
Poll ID	INT, FOREIGN KEY
Results	INT[]
Date Finished	DATETIME

Poll Creation:

- When *Poll* creation form is submitted, create *Poll Result* using created *Poll's* ID and a new Results array containing the counts for each choice (0 by default). Indices in results array correspond to the choice in the Choices array whose results they reflect.

Poll Index:

- The voter will have an option to input an access code that directs them to the private poll.
  - No one has access to private polls without the access code (unless they created it).
- The voter will have an option to view public polls whose access code = -1 (no access code).
  - A search function to filter polls through their title fields would work.
  - Another option is adding a keywords array so the search function will filter by title and/or keywords

Poll View:

- Present the user with the *Poll* (title, choices, creator, date created, etc.)
- Once a vote is submitted, create a new *Vote* using the logged in *User's* ID, the ID of the *Poll,* their selected choice, and the current time.

Results View:

- When a *Vote* is submitted, display the *Poll Result* corresponding to the submitted Poll's ID (lookup based on Vote.pollID).