

CSCI 3308  
BirdsI Project  
Database Design

This database design document shows all the tables that are going to be used in our sqlite3 database. Sqlite3 was chosen as our database due to the ease of integration with the Flask server we will be using for our application. There are 3 table in this database: Users, Keywords, and Tweets. Along with a description and data dump of these tables, there is an ER diagram for a better visual explanation and to show how tables are related to each other. Currently, the database connector methods are still a work in progress, so for this milestone, we have populated the tables with example data similar to what the application will do in order to provide a clear picture of our database.

### Users

ID	Username	Email	Password	Admin

In this table, we will populate the database with our users' username, email, password, and if they have administrative rights or not, which can be represented by boolean values.

Database dump:

```
1|Apple|steve@apple.com|997d75b5f711eff7|0
2|Nest|james@nest.com|12d72b5f311eff7|0
3|Dell|sarah@dell.com|a736be375b5f711|0
4|Lenovo|ian@lenovo.com|38273b5ad37785e|0
5|Acer|michelle@acer.com|383828383bae75b|0
```

### Keywords

ID	Keyword	Start time	User ID

This table will feature the specific keyword entered by the user, the start time of their search query, and the user ID is a foreign key from the "Users" table's "ID" column.

Database dump:

```
1|headphone|10/11/2026 15:22:32|1
2|jack|10/14/2026 17:10:10|2
3|slow|10/15/2026 15:44:59|3
4|cool|10/18/2026 19:05:01|4
```

5|expensive|10/20/2026 08:12:44|5

## Tweets

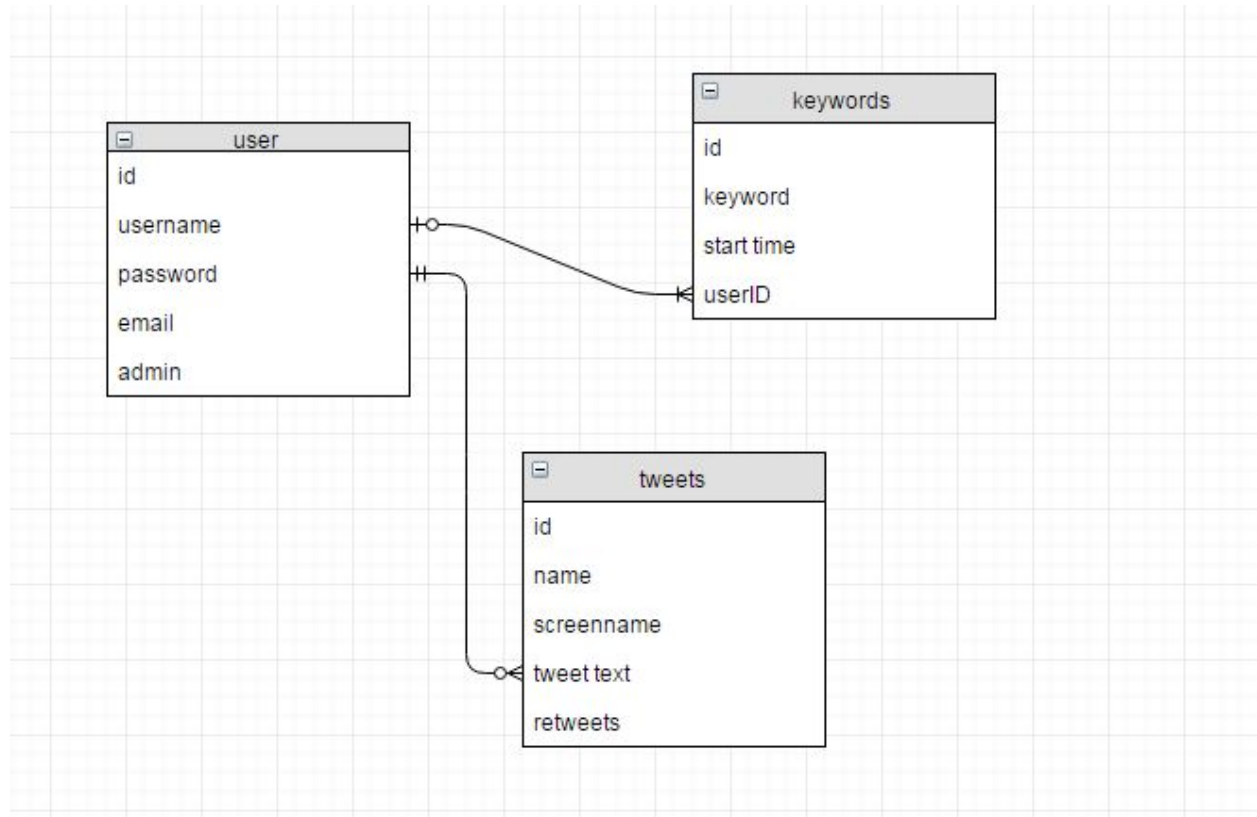
ID	Name	Screen name	Tweet text	retweets

This table will be populated with the name of the Twitter user, their screen name, the text in their tweet that features our selected keyword, and the amount of retweets that their individual tweet received. This will serve as a cache of sorts for the Twitter API, allowing us to manipulate this data as needed without excessive polling of the Twitter API.

## Database dump:

```
1|nesha_silva|NESHA|Let me give yall a list of reasons why the iPhone 7 sucks!|0
2|Fact|Fact|8 Things You Didnt Know Your Earphones Could Do... https://t.co/yQP7P3585F|0
3|ZENFORYOURADIO|ZEN FOR YOU RADIO|listen now : Castlebed Speak Easy on ZEN
FOR YOU RADIO FREE APP IPHONE / ANDROID website :https://t.co/zAGaT6HbWZ|0
4|jaradylan20|Dylan Jara|RT @TheCWW: No iphone, no toys, no television and see their face.
https://t.co/GvWAlBo1iQ|814
5|JaganJindal|Jagan Nath Jindal|RT @trendinaliaIN: #Top3Apps for #RevolutionaryLionHeart
Twitter for Android 81% Twitter for iPhone 15% Mobile Web (M2) 2%|12
6|JORDVNL|Jordan|RT @tomgara: AirPods delayed as Apple perfects revolutionary tech that
could physically connect them to an iPhone & give them unlimited bat...|50
7|Yam_Kmn|yamkmn|Ive harvested 280 food! Check your patches for food too!
https://t.co/KJrIzw3GB2 #iphone, #iphonegames, #gameinsight|0
8|Yam_Kmn|yamkmn|Ive collected 1,916 gold coins! https://t.co/KJrIzw3GB2 #iphone,
#iphonegames, #gameinsight|0
```

In each table we have an auto incremented “ID” column acting as a primary key for the table.



ER Diagram