**Database Structure Proposal for Storing Tweets from CommBank Twitter Account**

List of Tables

Users

Tweets

Replies

QuoteRetweets

Mentions

**Items to Include in Each Data Set**

**1. Users Table**

**user\_id (Primary Key):** Unique identifier for each user.

**username:** The Twitter handle of the user.

**display\_name:** The display name of the user.

**bio:** The bio of the user.

**profile\_image\_url:** URL of the user's profile image.

**created\_at:** The date when the user account was created.

**2. Tweets Table**

**tweet\_id (Primary Key):** Unique identifier for each tweet.

**user\_id (Foreign Key):** The user who posted the tweet.

**content:** The content of the tweet.

**created\_at:** The date and time when the tweet was posted.

**retweet\_count:** Number of retweets.

**like\_count:** Number of likes.

**reply\_count:** Number of replies.

**quote\_count:** Number of quote retweets.

**3. Replies Table**

**reply\_id (Primary Key):** Unique identifier for each reply.

**tweet\_id (Foreign Key):** The original tweet that is being replied to.

**user\_id (Foreign Key):** The user who posted the reply.

**content:** The content of the reply.

**created\_at:** The date and time when the reply was posted.

**4. QuoteRetweets Table**

**quote\_id (Primary Key):** Unique identifier for each quote retweet.

**tweet\_id (Foreign Key):** The original tweet that is being quoted.

**user\_id (Foreign Key):** The user who posted the quote retweet.

**content:** The content of the quote retweet.

**created\_at:** The date and time when the quote retweet was posted.

**5. Mentions Table**

**mention\_id (Primary Key):** Unique identifier for each mention.

**tweet\_id (Foreign Key):** The tweet in which the user is mentioned.

**mentioned\_user\_id (Foreign Key):** The user who is mentioned.

**created\_at:** The date and time when the mention was made.

**Primary Keys for Each Data Set**

**Users:** user\_id

**Tweets:** tweet\_id

**Replies:** reply\_id

**QuoteRetweets:** quote\_id

**Mentions:** mention\_id

**Relationships Between Tables**

**Users and Tweets**

**One-to-Many:** One user can have many tweets.

**Relationship Field:** user\_id in Tweets references user\_id in Users.

**Tweets and Replies**

**One-to-Many:** One tweet can have many replies.

**Relationship Field:** tweet\_id in Replies references tweet\_id in Tweets.

**Tweets and QuoteRetweets**

**One-to-Many:** One tweet can have many quote retweets.

**Relationship Field:** tweet\_id in QuoteRetweets references tweet\_id in Tweets.

**Tweets and Mentions**

**One-to-Many:** One tweet can have many mentions.

**Relationship Field:** tweet\_id in Mentions references tweet\_id in Tweets.

**Users and Replies**

**One-to-Many:** One user can post many replies.

**Relationship Field:** user\_id in Replies references user\_id in Users.

**Users and QuoteRetweets**

**One-to-Many:** One user can post many quote retweets.

**Relationship Field:** user\_id in QuoteRetweets references user\_id in Users.

**Users and Mentions**

**One-to-Many:** One user can be mentioned in many tweets.

**Relationship Field:** mentioned\_user\_id in Mentions references user\_id in Users.

This structure ensures that we capture all necessary data points while maintaining the integrity and relationships of the data. This approach will help in querying and analyzing the data effectively for business insights.