

Database Structure for Twitter Data

Tables and Fields

1. **Tweets Table** (Stores tweets from CommBank's Twitter account)
 - tweet_id (Primary Key) – Unique identifier for each tweet
 - content – Text of the tweet
 - timestamp – Date and time when the tweet was posted
 - likes_count – Number of likes the tweet received
 - retweets_count – Number of retweets
 - comments_count – Number of replies to the tweet
2. **Users Table** (Stores details of users who interact with CommBank's tweets)
 - user_id (Primary Key) – Unique identifier for each user
 - username – Twitter handle of the user
 - display_name – User's display name
 - profile_image_url – URL of the user's profile picture
 - account_created_at – Date the user created their account
3. **Replies Table** (Stores user replies to tweets)
 - reply_id (Primary Key) – Unique identifier for each reply
 - tweet_id (Foreign Key) – The original tweet being replied to
 - user_id (Foreign Key) – The user who posted the reply
 - content – Text of the reply
 - timestamp – Date and time of the reply
4. **QuoteRetweets Table** (Stores user quote retweets of CommBank's tweets)
 - quote_id (Primary Key) – Unique identifier for each quote retweet
 - tweet_id (Foreign Key) – The original tweet being quoted
 - user_id (Foreign Key) – The user who posted the quote retweet
 - content – Text added by the user while quoting the tweet
 - timestamp – Date and time of the quote retweet
5. **Mentions Table** (Stores direct mentions of CommBank's Twitter handle in user tweets)
 - mention_id (Primary Key) – Unique identifier for each mention

- user_id (Foreign Key) – The user who mentioned CommBank
 - content – Text of the tweet mentioning CommBank
 - timestamp – Date and time of the mention
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Relationships Between Tables

- **Tweets Table → Replies Table:** One-to-many (one tweet can have multiple replies)
- **Tweets Table → QuoteRetweets Table:** One-to-many (one tweet can be quoted multiple times)
- **Users Table → Replies Table:** One-to-many (one user can post multiple replies)
- **Users Table → QuoteRetweets Table:** One-to-many (one user can quote multiple tweets)
- **Users Table → Mentions Table:** One-to-many (one user can mention CommBank multiple times)