Tables and Fields

1. Tweets Table

This table stores the tweets posted by the CommBank Twitter account.

Field Name	Description	Data Type
tweet_id (PK)	Unique identifier for the tweet (Twitter's tweet ID).	BIGINT
text	The content of the tweet.	VARCHAR(280)
created_at	Timestamp when the tweet was posted.	DATETIME
likes_count	Number of likes the tweet received.	INT
retweets_count	Number of retweets the tweet received.	INT
replies_count	Number of replies the tweet received.	INT
quote_retweets_count	Number of quote retweets the tweet received.	INT

Primary Key: tweet_id

2. Users Table

This table stores information about users who interact with CommBank tweets (e.g., replies, mentions, quote retweets).

Field Name	Description	Data Type
user_id (PK)	Unique identifier for the user (Twitter's user ID).	BIGINT
username	The Twitter handle of the user.	VARCHAR(50)
display_name	The display name of the user.	VARCHAR(100)
followers_count	Number of followers the user has.	INT

`verified`	Whether the user is verified on Twitter.	BOOLEAN

Primary Key: `user_id`

3. Replies Table

This table stores replies to CommBank tweets.

Field Name	Description	Data Type
`reply_id` (PK)	Unique identifier for the reply (Twitter's tweet ID).	BIGINT
`tweet_id` (FK)	The tweet to which this is a reply (references `Tweets.tweet_id`).	BIGINT
`user_id` (FK)	The user who posted the reply (references `Users.user_id`).	BIGINT
`text`	The content of the reply.	VARCHAR(280)
`created_at`	Timestamp when the reply was posted.	DATETIME
`likes_count`	Number of likes the reply received.	INT

Primary Key: `reply_id`
Foreign Keys:
- `tweet_id` references `Tweets.tweet_id`
- `user_id` references `Users.user_id`

4. QuoteRetweets Table

This table stores quote retweets of CommBank tweets.

Field Name	Description	Data Type
`quote_retweet_id` (PK)	Unique identifier for the quote retweet (Twitter's tweet ID).	BIGINT
`tweet_id` (FK)	The tweet being quote retweeted (references `Tweets.tweet_id`).	BIGINT
`user_id` (FK)	The user who posted the quote retweet (references `Users.user_id`).	BIGINT

text	The content of the quote retweet.	VARCHAR(280)
created_at	Timestamp when the quote retweet was posted.	DATETIME
likes_count	Number of likes the quote retweet received.	INT

Primary Key: quote_retweet_id
Foreign Keys:
- tweet_id references Tweets.tweet_id
- user_id references Users.user_id

5. Mentions Table

This table stores direct mentions of CommBank by users.

Field Name	Description	Data Type
mention_id (PK)	Unique identifier for the mention (Twitter's tweet ID).	BIGINT
user_id (FK)	The user who mentioned CommBank (references Users.user_id).	BIGINT
text	The content of the mention.	VARCHAR(280)
created_at	Timestamp when the mention was posted.	DATETIME
likes_count	Number of likes the mention received.	INT

Primary Key: mention_id
Foreign Key:
- user_id references Users.user_id

Relationships Between Tables

1. **Tweets Table** is the central table that stores all tweets posted by CommBank.
2. **Replies Table** is linked to the **Tweets Table** via tweet_id (a reply is associated with a specific tweet).
3. **QuoteRetweets Table** is linked to the **Tweets Table** via tweet_id (a quote retweet is associated with a specific tweet).

4. **Mentions Table** is independent of the **Tweets Table** but is linked to the **Users Table** via `user_id` (a mention is made by a specific user).
5. **Users Table** is linked to all interaction tables (**Replies**, **QuoteRetweets**, **Mentions**) via `user_id`.

ER Diagram (Conceptual)

```
Tweets
|-- tweet_id (PK)
|-- text
|-- created_at
|-- likes_count
|-- retweets_count
|-- replies_count
|-- quote_retweets_count

Users
|-- user_id (PK)
|-- username
|-- display_name
|-- followers_count
|-- verified

Replies
|-- reply_id (PK)
|-- tweet_id (FK) -> Tweets.tweet_id
|-- user_id (FK) -> Users.user_id
|-- text
|-- created_at
|-- likes_count

QuoteRetweets
|-- quote_retweet_id (PK)
|-- tweet_id (FK) -> Tweets.tweet_id
|-- user_id (FK) -> Users.user_id
|-- text
|-- created_at
|-- likes_count

Mentions
|-- mention_id (PK)
|-- user_id (FK) -> Users.user_id
|-- text
```

```
|-- created_at
|-- likes_count
```