

* Tables (Entities)

1. **Tweets** – Stores original tweets from @CommBank.
2. **Users** – Stores information about users interacting with tweets.
3. **Replies** – Stores user replies to CommBank’s tweets.
4. **QuoteRetweets** – Stores quote retweets with user comments.
5. **Mentions** – Stores direct mentions of @CommBank by other users.

* Identifying Attributes

1. Tweets Table

Attribute	Description	Type
tweet_id (Primary Key)	Unique identifier for each tweet	BIGINT
User_id	Unique identifier of who posted the tweet	BIGINT
content	Text content of the tweet	TEXT
created_at	Date and time of the tweet	TIMESTAMP
retweet_count	Number of retweets	INT
like_count	Number of likes	INT
reply_count	Number of replies	INT
quote_count	Number of quote retweets	INT
source	Platform used (e.g., iOS, Web)	VARCHAR(100)

2. Users Table

Attribute	Description	Type
user_id (Primary Key)	Unique identifier for each user	BIGINT
username	Twitter handle	VARCHAR(100)
display_name	User's display name	VARCHAR(100)
followers_count	Number of followers	INT
verified	Verification status (0/1)	BOOLEAN

3. Replies Table

Attribute	Description	Type
reply_id (Primary Key)	Unique identifier for each reply	BIGINT
tweet_id (Foreigner Key)	ID of the original tweet replied to	BIGINT
user_id (Foreigner Key)	ID of the user who replied	BIGINT
content	Text content of the reply	TEXT
created_at	Date and time of the reply	TIMESTAMP
like_count	Number of likes on the reply	INT

4. QuoteRetweets Table

Attribute	Description	Type
Quote_id (Primary Key)	Unique identifier for each quote retweet	BIGINT

tweet_id (Foreigner Key)	ID of the original tweet retweeted	BIGINT
user_id (Foreigner Key)	ID of the user who quoted	BIGINT
content	Text content of the quoted comment	TEXT
created_at	Date and time of the quote retweet	TIMESTAMP
like_count	Number of likes on the quote	INT

5. Mentions Table

Attribute	Description	Type
mention_id (Primary Key)	Unique identifier for each mention	BIGINT
user_id (Foreigner Key)	ID of the user who mentioned	BIGINT
content	Text content of the mention	TEXT
created_at	Date and time of the mention	TIMESTAMP
like_count	Number of likes on the mention	INT

* Relationship

Tweets to Users: One-to-Many: A tweet is created by one user (@CommBank). A user can have multiple tweets.

QuoteReweets to tweets and users: One to many: Each quote retweet is associated with one original tweet (via tweet_id) and one user (via user_id). A tweet can be retweeted multiple times and a user can post multiple retweets.

Mention to Tweets and Users: One to many: Each mention is associated with one tweet (via tweet_id) and one user (via user_id). A user can mention @CommBank in multiple tweets.

Replies to Tweets and Users: One to many: Each reply is associated with one tweet (via tweet_id) and one user (via user_id). A single tweet can have multiple replies

*** Relationship Diagram**

