PSQL Foreign keys

A foreign key is essentially a field or column in another table that is being referenced by the original table. A foreign key usually references a primary key in another table but as you can see our posts table, it also has a foreign key link to the username which we need for obvious reasons. To ensure data integrity you can use the UNIQUE constraint on the username field which allows it to function as a foreign key.

Using a column in a table that references a column in a different

Using a column in a table that references a column in a different table is what allows us to have relations between tables in our database hence why SQL databases are referred to as "relational databases".

The syntax we use is:

column_name data_type REFERENCES other_table(column_name_in_other_table)

Hence a single row in the user_id column in our posts table will have to match a single row in the uid column of the **users table**. This will allow us to do things such as look up all the posts a certain user made or look up all the comments associated with a post.