Many transactions may belong to many different categories.

**transaction**

| PK | transaction_id: UUID |
|----|----------------------|
| IX1 | created: TIMESTAMP |
| FK3 | account_id: UUID |
| FK2 | category_id: |
| FK1 | user_id: integer |
| | note:  NVARCHAR(2000) |
| | amount:: VARCHAR(100) |
| | type: VARCHAR(100) |

**category**

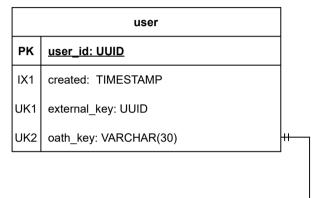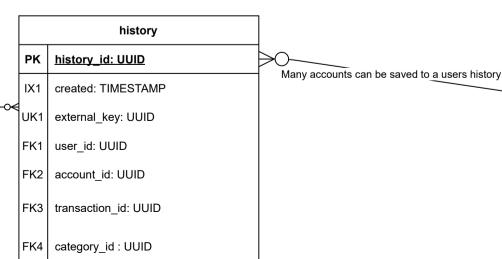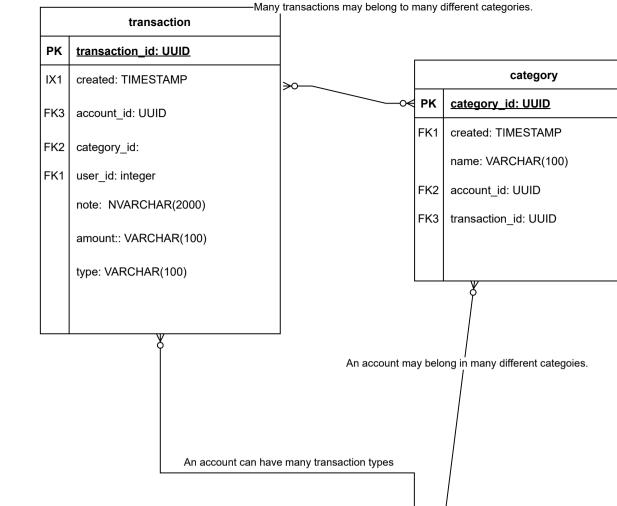| PK | category_id: UUID |
|----|-------------------|
| FK1 | created: TIMESTAMP |
| | name: VARCHAR(100) |
| FK2 | account_id: UUID |
| FK3 | transaction_id: UUID |

The user entity corresponds
to users of the system
where
each user is
associated with
an external OAuth 2.0 provider.

**user**

| PK | user_id: UUID |
|----|---------------|
| IX1 | created:  TIMESTAMP |
| UK1 | external_key: UUID |
| UK2 | oath_key: VARCHAR(30) |

An account may belong in many different categoies.

An account can have many transaction types

A user can have many rows of history data.

**history**

| PK | history_id: UUID |
|----|------------------|
| IX1 | created: TIMESTAMP |
| UK1 | external_key: UUID |
| FK1 | user_id: UUID |
| FK2 | account_id: UUID |
| FK3 | transaction_id: UUID |
| FK4 | category_id : UUID |

Many accounts can be saved to a users history

**account**

| PK | account_id: UUID |
|----|------------------|
| IX1 | created: TIMESTAMP |
| UK1 | external_key: UUID |
| FK1 | transaction_id: UUID |
| FK2 | category_id: UUID |
| | name: VARCHAR(100) |