

Database -

1. Primary Keys

- A Primary Key uniquely identifies a row in a table.
- In your DB:
 - user.id is the primary key for users
 - item.id is the primary key for items
 - trade.id, transaction.id, partnership.id, ongoing_transaction.id — all have unique primary keys

2. Foreign Keys

Table	Foreign Key	Refers To
item.owner_id	user.id	Who owns the item
trade.proposer_id	user.id	Who proposed the trade
trade.offered_item_id	item.id	Item being offered
trade.requested_item_id	item.id	Item being requested
transaction.trade_id	trade.id	Which trade it's for
ongoing_transaction.transaction_id	transaction.id	In-progress confirmation
partnership.user_id, partner_id	user.id	Many-to-many user relationships

3. Relationship

Relationship	Exaplanation
One-to-Many	A user can have many items. Each item belongs to one user
Many-to-Many (via partnership)	Users can have multiple partners using the partnership table
One-to-One	Each trade has exactly one transaction, and each transaction relates to one trade
One-to-One (Ongoing Transaction)	Optional extra layer to track ongoing validation with full 16-digit code