Crypto Exchange System – ER Diagram

USERS

PK	user_id	int
UK	username	string
UK	email	string
	password_hash	string
	create_at	datetime
	update_at	datetime

WALLETS

PK	wallet_id	int
FK	user_id	int
FK	currency_id	int
	balance	dacimal
	create_at	datetime
	updated_at	datetime

CURRENCIES

PK	currency_id	int
UK	code	string
	name	string
	type	string
	symbol	string
	is_active	boolean
	create_at	datetime
	update_at	datetime

TRANSFERS

PK	transfer_id	int
FK	from_user_id	int
FK	to_user_id	int
FK	currency_id	int
	amount	decimal
	status	string
	description	string
	create_at	datetime
	update_at	datetime

USER_SESSIONS

PK	session_id	int
FK	user_id	int
	token_hash	string
	login_time	datetime
	logout_time	datetime
	ip_address	string
	is_active	boolean
	status	string
	create_at	datetime
	update_at	datetime

TRANSACTIONS

PK	transaction_id	int
FK	user_id	int
FK	from_currency_id	int
FK	to_currency_id	int
	transaction_type	string
	from_amount	decimal
	to_amount	decimal
	exchange_rate	decimal
	status	string
	create_at	datetime
	update_at	datetime

EXCHANGE_RATES

PK	rate_id	int
FK	from_currency_id	int
FK	to_currency_id	int
	rate	dacimal
	effective_date	date
	create_at	datetime
	update_at	datetime

Relationship labels: involves, stored_in, owns, make, has, from_user_id send, to_user_id receive, involve from_currency, involve to_currency, from_currency_id, to_currency_id