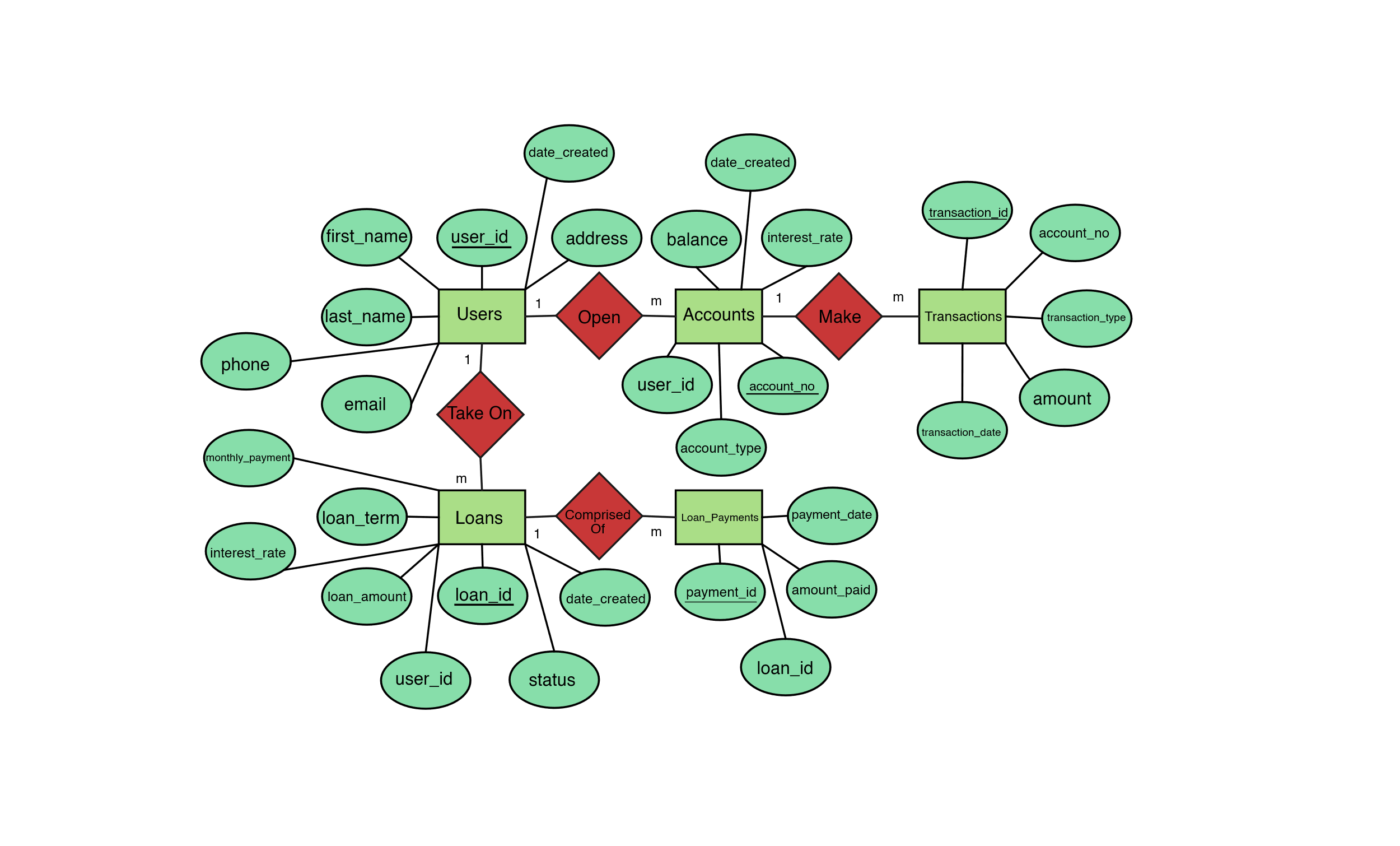
**Introduction to Database System Design – CS 33007**

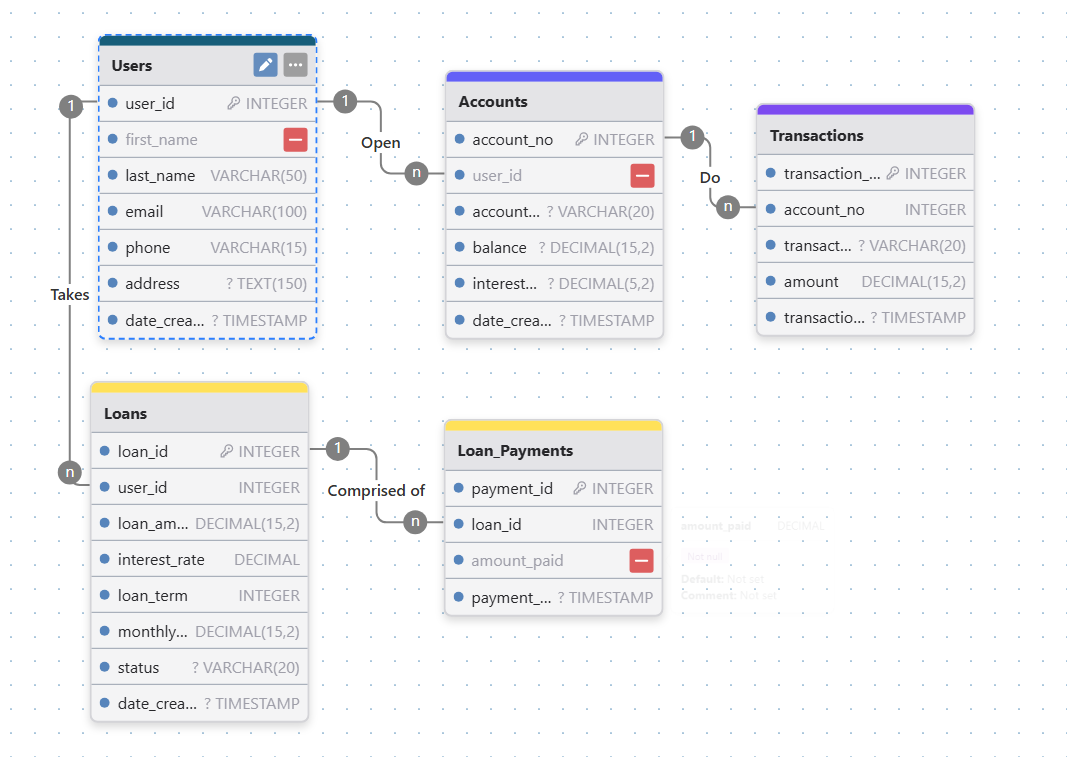
Deliverable 2

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**Requirement 1**

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**Requirement 2**

****

**Requirement 3**

**Some common queries are as follows:**

Deposit Query

**INSERT** **INTO** Transactions (account\_id, transaction\_type, amount)

**VALUES** (?, 'deposit', ?);

**UPDATE** Accounts

**SET** balance = balance + ?

**WHERE** account\_id = ?;

Withdraw Query

**INSERT** **INTO** Transactions (account\_id, transaction\_type, amount)

**VALUES** (?, 'withdrawal', ?);

**UPDATE** Accounts

**SET** balance = balance - ?

**WHERE** account\_id = ? AND balance >= ?;

Issue Loan Query

**INSERT** **INTO** Loans (user\_id, loan\_amount, interest\_rate, loan\_term, monthly\_payment)

**VALUES** (?, ?, ?, ?, ?);

Loan Payment Query

**INSERT** **INTO** Loan\_Payments (loan\_id, amount\_paid)

**VALUES** (?, ?);

**UPDATE** Loans

**SET** loan\_amount = loan\_amount - ?

**WHERE** loan\_id = ?;

Close Account Query

**DELETE** **FROM** Accounts **WHERE** account\_no = ?;