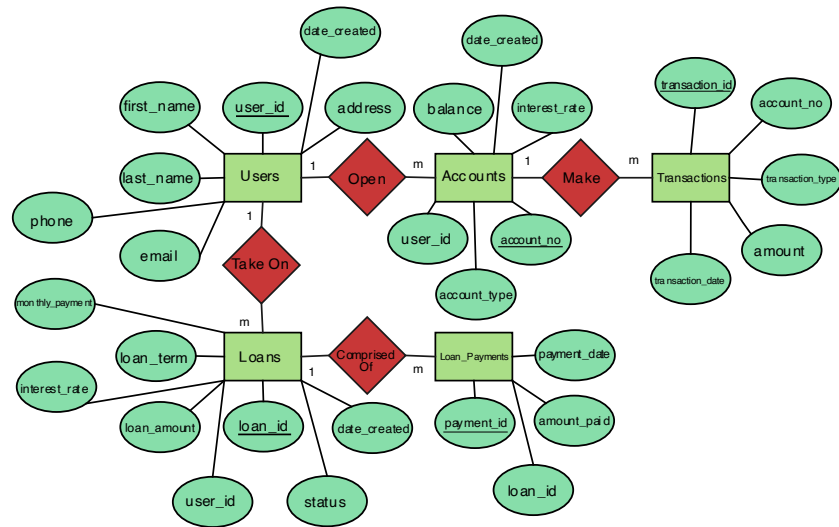


Introduction to Database System Design ĩ CS 33007

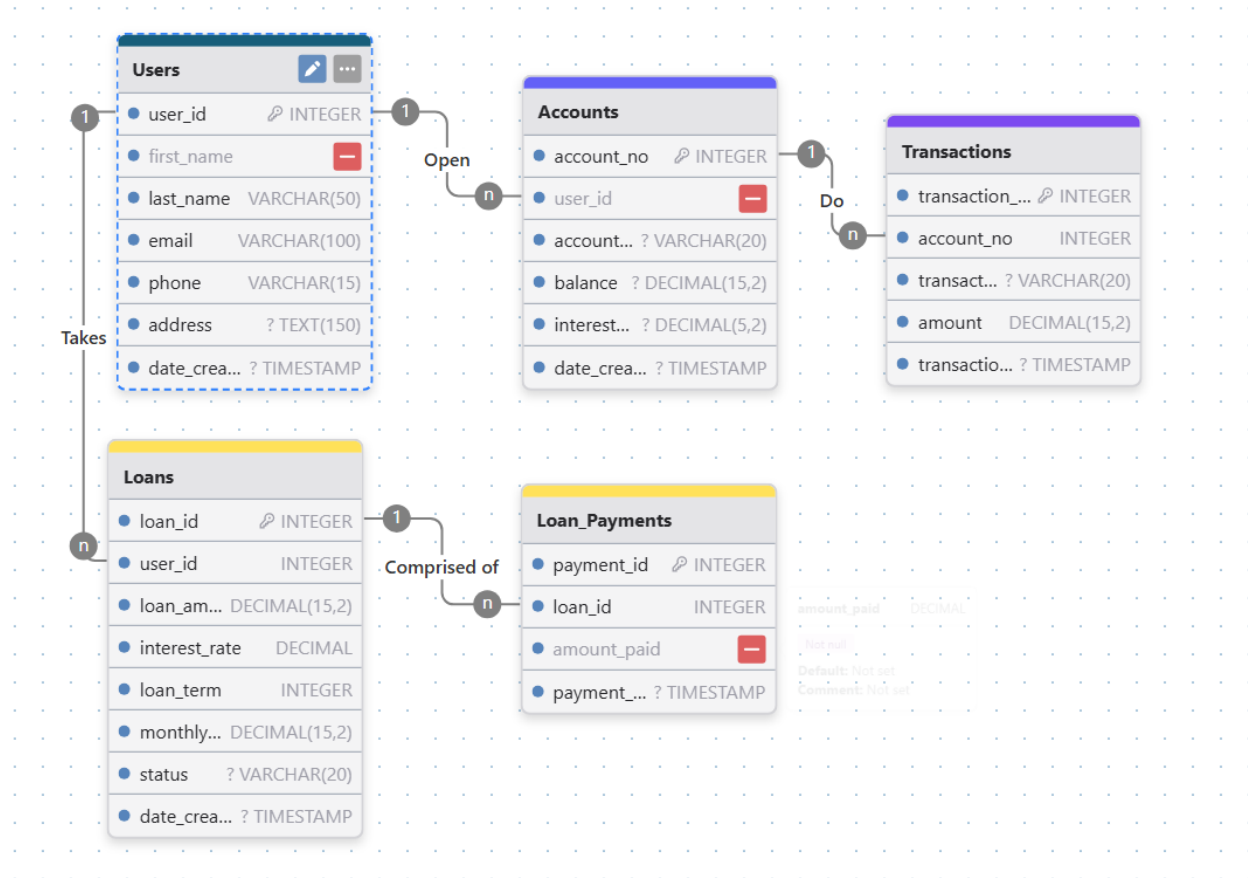
Deliverable 2

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Requirement 1



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 = ?;
```