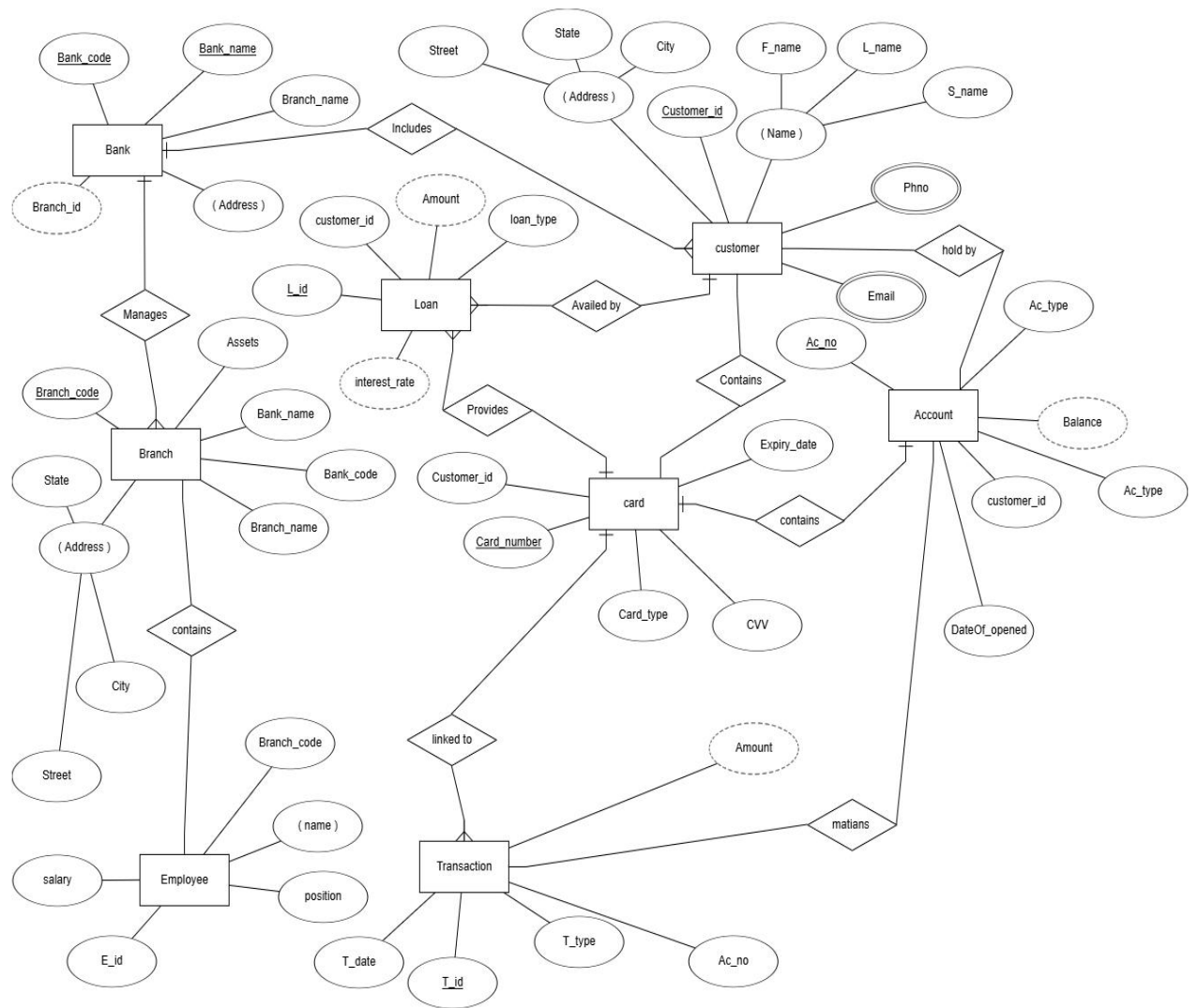


BANKING MANAGEMENT SYSTEM

CREATING TABLES



JULY 20, 2024
PRASANNA REDDY MANDHALA



**ER DIAGRAM OF
BANKING MANAGEMENT SYSTEM**

CREATING TABLES:

1.BANK

```
CREATE TABLE Bank (  
    bank_code INT PRIMARY KEY,  
    bank_name VARCHAR(100),  
    branch_name VARCHAR(100),  
    address VARCHAR(255)  
);
```

2.BRANCH

```
CREATE TABLE Branch (  
    branch_id INT PRIMARY KEY,  
    branch_code INT,  
    bank_code INT,  
    branch_name VARCHAR(100),  
    address VARCHAR(255),
```

```
state VARCHAR(50),  
city VARCHAR(50),  
street VARCHAR(100),  
assets DECIMAL(15, 2),  
FOREIGN KEY (bank_code) REFERENCES  
Bank(bank_code)  
);
```

ALTER :

```
ALTER TABLE Branch ADD INDEX  
idx_branch_code (branch_code);
```

3.CUSTOMER:

```
CREATE TABLE Customer (  
customer_id INT PRIMARY KEY,  
first_name VARCHAR(50),  
last_name VARCHAR(50),  
surname VARCHAR(50),
```

```
address VARCHAR(255),  
phone VARCHAR(15),  
email VARCHAR(100)  
);
```

4. ACCOUNT:

```
CREATE TABLE Account (  
    account_number INT PRIMARY KEY,  
    account_type VARCHAR(20),  
    balance DECIMAL(15, 2),  
    customer_id INT,  
    date_of_opened DATE,  
    FOREIGN KEY (customer_id) REFERENCES  
Customer(customer_id)  
);
```

```
ALTER : ALTER TABLE Account ADD INDEX  
idx_account_number (account_number);
```

5. CARD:

```
CREATE TABLE Card (  
    card_number INT PRIMARY KEY,  
    card_type VARCHAR(20),  
    cvv INT,  
    expiry_date DATE,  
    customer_id INT,  
    FOREIGN KEY (customer_id) REFERENCES  
    Customer(customer_id)  
);
```

6. LOAN:

```
CREATE TABLE Loan (  
    loan_id INT PRIMARY KEY,  
    loan_type VARCHAR(50),  
    amount DECIMAL(15, 2),  
    interest_rate DECIMAL(5, 2),
```

```
customer_id INT,  
    FOREIGN KEY (customer_id) REFERENCES  
Customer(customer_id)  
);
```

7. TRANSACTION:

```
CREATE TABLE Transaction (  
    transaction_id INT PRIMARY KEY,  
    transaction_date DATE,  
    transaction_type VARCHAR(50),  
    amount DECIMAL(15, 2),  
    account_number INT,  
    branch_code INT,  
    FOREIGN KEY (account_number)  
REFERENCES Account(account_number),  
    FOREIGN KEY (branch_code) REFERENCES  
Branch(branch_code)  
);
```


8. EMPLOYEE:

```
CREATE TABLE Employee (  
    employee_id INT PRIMARY KEY,  
    name VARCHAR(100),  
    position VARCHAR(50),  
    salary DECIMAL(10, 2),  
    branch_code INT,  
    FOREIGN KEY (branch_code) REFERENCES  
    Branch(branch_code)  
);
```