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# BANKING MANAGEMENT SYSTEM

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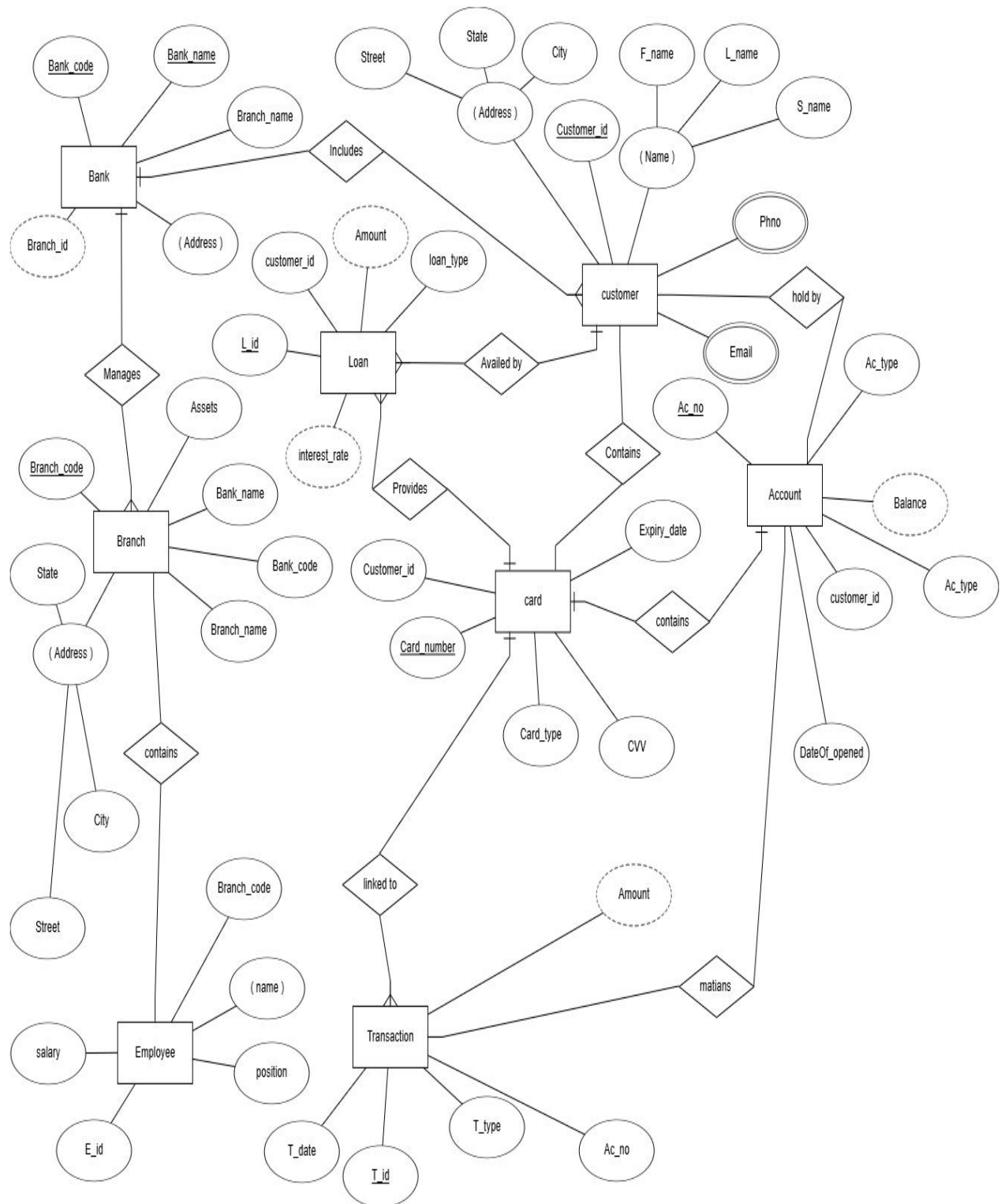
## CREATING TABLES



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# ER DIAGRAM OF BANKING 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)  
);
```