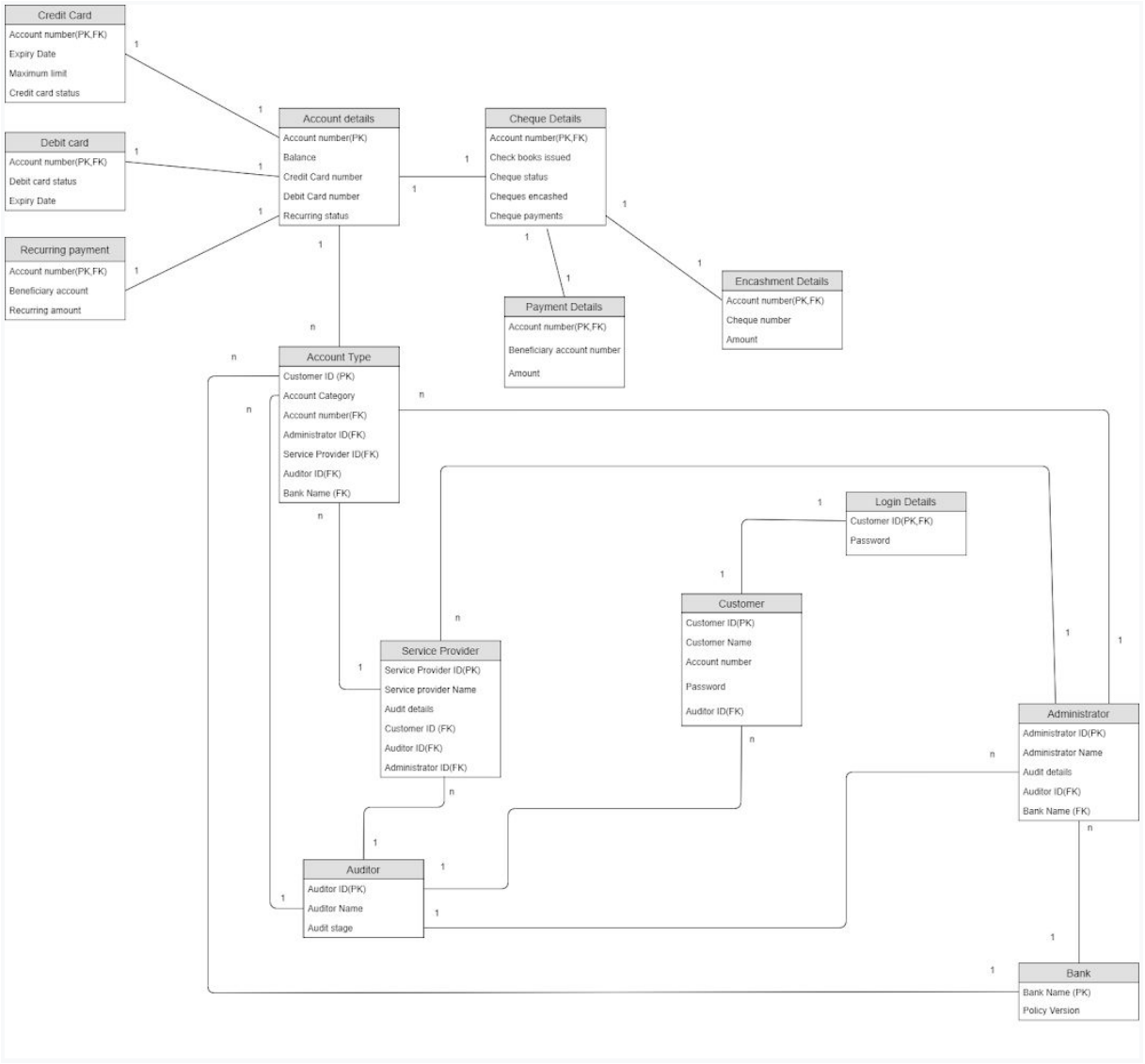
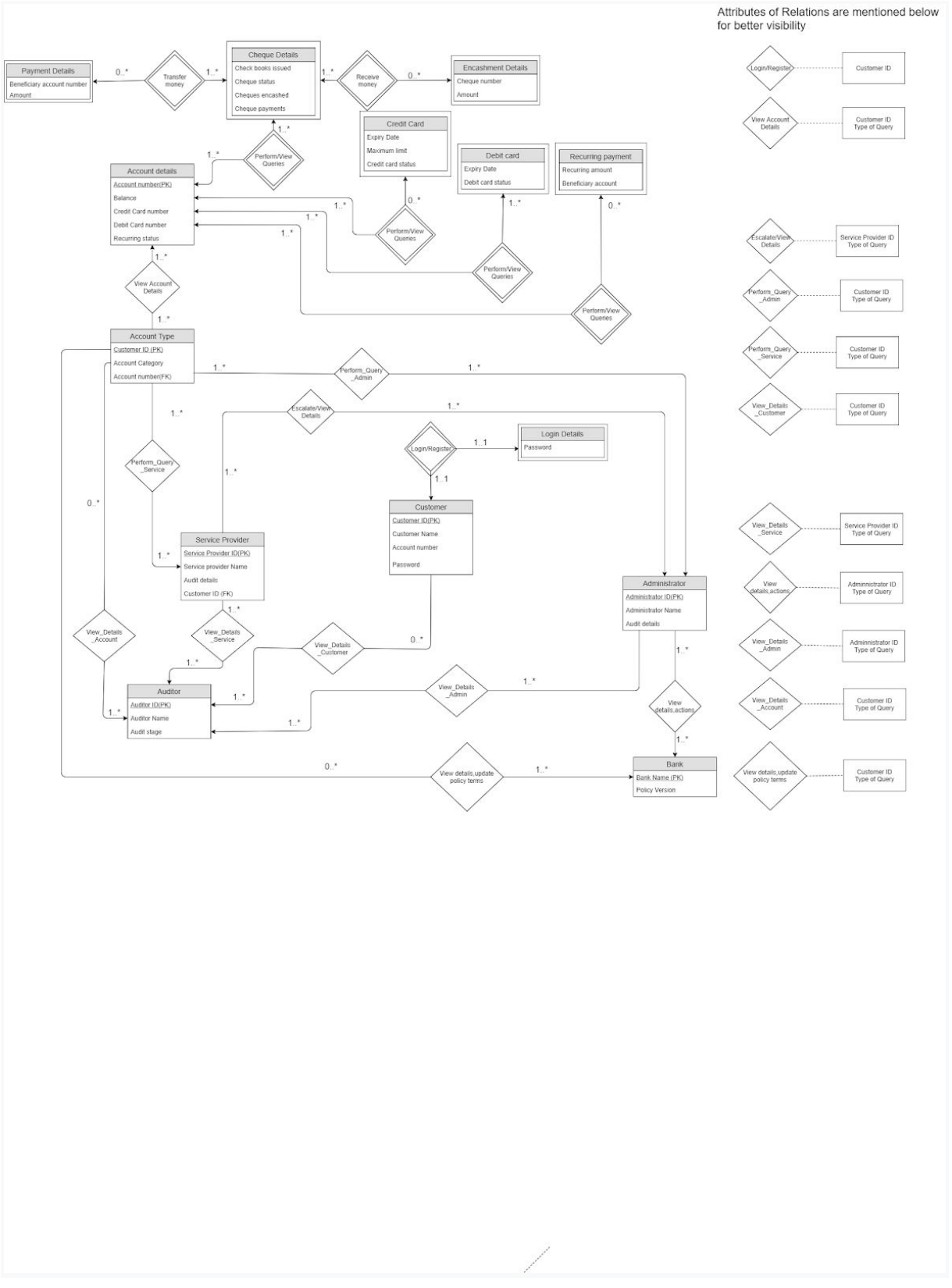


Relational SCHEMA


Attributes of Relations are mentioned below for better visibility
Payment Details
Beneficiary account number
Amount
Transfer money
Cheque Details
Check books issued
Cheque status
Cheques encashed
Cheque payments
Receive money
Encashment Details
Cheque number
Amount
Credit Card
Expiry Date
Maximum limit
Credit card status
Debit card
Expiry Date
Debit card status
Recurring payment
Recurring amount
Beneficiary account
Perform/View Queries
Account details
Account number(PK)
Balance
Credit Card number
Debit Card number
Recurring status
View Account Details
Account Type
Customer ID (PK)
Account Category
Account number(FK)
Perform_Query_Admin
Escalate/View_Details
Login/Register
Login Details
Password
Perform_Query_Service
Customer
Customer ID(PK)
Customer Name
Account number
Password
Service Provider
Service Provider ID(PK)
Service provider Name
Audit details
Customer ID (FK)
Administrator
Administrator ID(PK)
Administrator Name
Audit details
View_Details_Account
View_Details_Service
View_Details_Customer
View_Details_Admin
View details,actions
Auditor
Auditor ID(PK)
Auditor Name
Audit stage
View details,update policy terms
Bank
Bank Name (PK)
Policy Version
Login/Register
Customer ID
View Account Details
Customer ID Type of Query
Escalate/View_Details
Service Provider ID Type of Query
Perform_Query_Admin
Customer ID Type of Query
Perform_Query_Service
Customer ID Type of Query
View_Details_Customer
Customer ID Type of Query
View_Details_Service
Service Provider ID Type of Query
View details,actions
Adminnistrator ID Type of Query
View_Details_Admin
Adminnistrator ID Type of Query
View_Details_Account
Customer ID Type of Query
View details,update policy terms
Customer ID Type of Query

ER MODEL V3

1) Credit Card

```
CREATE TABLE Credit card(
Account Number CHAR(20) NOT NULL,
Expiry Date DATE,
Maximum Limit INTEGER
Debit Card Status BOOLEAN
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Account Details,
ON DELETE CASCADE)
```

2) Debit Card

```
CREATE TABLE Debit card(
Account Number CHAR(20) NOT NULL,
Expiry Date DATE,
Debit Card Status BOOLEAN
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Account Details,
ON DELETE CASCADE)
```

3)Recurring Payment

```
CREATE TABLE Recurring payment(
Account Number CHAR(20) NOT NULL,
Beneficiary account INTEGER,
Recurring amount INTEGER,
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Account Details,
ON DELETE CASCADE)
```

4)Login Details

```
CREATE TABLE Login Details(
Customer ID CHAR(20) NOT NULL,
Password CHAR(20),
PRIMARY KEY(Customer ID),
FOREIGN KEY (Customer ID) REFERENCES Customer,
ON DELETE CASCADE)
```

5) Payment Details

```
CREATE TABLE Payment Details(
Account Number CHAR(20) NOT NULL,
Beneficiary Account Number CHAR(20)
Amount INTEGER
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Cheque Details,
ON DELETE CASCADE)
```

6) Account details

```
CREATE TABLE Account details
(Account Number CHAR(20) NOT NULL,
```

Balance FLOAT(8,2),
Credit Card number INTEGER,
Debit Card number INTEGER,
Recurring Status BOOLEAN,
)

7) Bank
CREATE TABLE Bank(
Bank Name CHAR(20) NOT NULL,
Policy Version FLOAT(4,2),
PRIMARY KEY(Bank Name),
)

8) Service Provider
CREATE TABLE Service Provider(
Service Provider ID CHAR(20) NOT NULL,
Service Provider Name CHAR(20)
Audit Details FLOAT(4,2)
Auditor ID CHAR(20)
Administrator ID CHAR(20)
Customer ID CHAR(20)
PRIMARY KEY(Service Provider ID),
FOREIGN KEY (Customer ID) REFERENCES Account Type,
FOREIGN KEY (Administrator ID) REFERENCES Administrator,
FOREIGN KEY (Auditor ID) REFERENCES Auditor,

)

9) Administrator
CREATE TABLE Administrator(
Audit Details FLOAT(4,2)
Auditor ID CHAR(20)
Administrator ID CHAR(20) NOT NULL
Administrator Name CHAR(20)
BANK NAME CHAR (20)
PRIMARY KEY(Administrator ID),
FOREIGN KEY (Bank Name) REFERENCES Bank,
FOREIGN KEY (Auditor ID) REFERENCES Auditor,

)

10) Cheque details
CREATE TABLE Cheque details(
Account Number CHAR(20) NOT NULL,
Cheques encashed INTEGER
Cheque payments FLOAT(8,2)
Check books issues INTEGER
Cheque Status BOOLEAN
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Account Details,
ON DELETE CASCADE)

11) Auditor

```
CREATE TABLE Auditor(
Auditor ID CHAR(20) NOT NULL,
Auditor Name CHAR(20),
Audit stage INT,
PRIMARY KEY (Auditor ID),
)
```

12) Payment Details

```
CREATE TABLE Payment Details(
Account Number CHAR(20) NOT NULL,
Cheque Number CHAR(20)
Amount INTEGER
PRIMARY KEY (Account Number),
FOREIGN KEY (Account Number) REFERENCES Cheque Details,
ON DELETE CASCADE)
```

13) Customer

```
CREATE TABLE Customer(
Customer ID CHAR(20) NOT NULL,
Customer Name CHAR(20),
Account number CHAR(20),
Password CHAR(20),
Auditor ID,
PRIMARY KEY (Auditor ID),
FOREIGN KEY (Auditor ID) REFERENCES Auditor)
```

14) Account Type

```
CREATE TABLE Customer(
Customer ID CHAR(20) NOT NULL,
Account Category CHAR(20),
Account number CHAR(20),
Administrator ID CHAR(20),
Service Provider ID,CHAR(20),
Auditor ID CHAR(20),
Bank Name CHAR(20)
PRIMARY KEY (Auditor ID),
FOREIGN KEY (Account number) REFERENCES Account Details,
FOREIGN KEY (Administrator ID) REFERENCES Administrator,
FOREIGN KEY (Service Provider ID) REFERENCES Service Provider,
FOREIGN KEY (Auditor ID) REFERENCES Auditor,
FOREIGN KEY (Bank Name) REFERENCES Bank)
```