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Relational schema:
Employee(Employee ID, Name, Username, Password)
Administrator(<u>Employee ID</u>)
Administrator.Employee_ID references Employee
Banker(<u>Employee_ID</u>)
Banker. Employee ID references Employee
Client(Client_ID, National_ID, Address, Name, Phone_no, Username, Password, Reason,
Admin_ID)
_____
Client.Admin_ID references Administrator
Requests(Request_ID, Status, Banker_ID, Client_ID)
Requests.Banker ID references Banker
Requests.Client_ID references Client
Credit Card Request(Request ID, Credit Card Type)
Credit_Card_Request.Request_ID references Requests
Loan_Request(Request ID, Laon_Type)
Loan Request.Request ID references Requests
System Issue (<u>ID</u>, Details, Status, Date, Client ID)
System Issue.Client ID references Client
Resolve_System_Issue(Admin_ID, System_Issue_ID)
```

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Resolve_System_Issue_ID references System_Issue
Account (Account_no, Account_type, Account_Status, Balance, Client_ID, Admin_ID, Reason)
Account.Client ID references Client
Account.Admin_ID references Administrator
Credit_Cards(Card_no, Pin, CVV, Limit, Pay_off_date, Expiry_date, Account_no)
Credit Cards. Account no references Account
Card_Issue (ID, Card_no, Client_ID, Type, Status, Description)
               _____
Card Issue.Card no references Credit Cards
Card_Issue.Client_ID references Client
Resolve_Card_Issue(Banker_ID, Card_issue_ID)
Resolve Card Issue.Banker ID references Banker
Resolve_Card_Issue.Card_issue_ID references Card_Issue
Loan (Loan ID, Remaining amount, Loan amount, No Of Installments, Loan Type,
Account_no, Interest_Rate)
Loan.Account_no references Account
Loan_Installment_Dates(Loan_ID, Installment_Due_Date)
Loan Installment Dates.Loan ID references Loan
Transaction(<u>Transaction ID</u>, Account_no, Currency, Amount, Transaction_Date)
```

Resolve_System_Issue.Admin_ID references Administrator

Transaction. Account no references Account

```
Transfer(<u>Transaction ID</u>, Recipient_account_no, Bank_Name_of_Recipient)
Transfer.Transaction ID references Transaction
Own (Transaction ID)
Own.Transaction_ID references Transfer
Internal (<u>Transaction_ID</u>)
Internal. Transaction ID references Transfer
Domestic (<u>Transaction_ID</u>)
Domestic.Transaction ID references Transfer
International (<u>Transaction_ID</u>, Country)
International. Transaction ID references Transfer
Loan_Payments(Transaction_ID, Loan_ID)
Loan Payments. Transaction ID references Transaction
Loan_Payments.Loan_ID references Loan
Credit_Card_Trans(Transaction ID, Status, Location, Card_no)
Credit_Card_Trans.Transaction_ID references Transaction
Credit_Card_Trans.Transaction_ID references Credit_Cards
Credit Card Debt(Transaction ID, partial/full amount, Card no)
Credit_Card_Debt.Transaction_ID references Transaction
Credit Card Debt.Transaction ID references Credit Cards
```

Bills(<u>Transaction_ID</u>, Due_Date)

Bills.Transaction_ID references Transaction

Reminder(<u>Transaction_ID</u>, ID, Frequency, Due_Date, Due_Amount, Payment_Type, Client_ID)

Reminder.Transaction_ID references Bills
Reminder.Client_ID references Client

Points(<u>Card_no</u>, Client_ID, Amount, Expiry_Date)

Points.Card_no references Credit_Cards Points.Client_ID references Client