Online banking system

Schema

User (<u>userID</u> , username , email , date_ of _birth , password , name , phone_ num)

Client (<u>clientID,</u> data_ created , status)

Client. clientID references User.

Banker (<u>bankerID,</u> Hire_ Date , role)

Banker. bankerID references User.

Admin (<u>adminID)</u>

Admin. adminID references User.

Account (<u>accountID,</u> status, start_ date, close_ date, balance, minimum_ balance,<u>clientID</u>, <u>charityID</u>)

Account. clientID references Client.

Account. charityID references Charity.

Savings (<u>accountID,</u> interest_ rate)

Savings. accountID references Account.

Salary(<u>accountID)</u>

Salary. accountID references Account.

Cards (<u>cardID</u>, status, data_ created, Expiration_ date, card_ limit, card_ number, PIN, CVV_ number, <u>clientID</u>)

Cards. clientID references Client.

Credit Card (<u>cardID</u>, balance)

Credit Card. cardID references Cards

Debit Card (CardID, withdrawal amount)

Debit Card. cardID references Cards

Points (pointID, expiry_ date, amount, date_ received, cardID)

Points. cardID references Cards.

Store (storeID, contact_ number, address, name, point_ conversion_ rate, adminID)

Store. adminID references Admin.

Points_ stores (pointID, storeID)

Points_ stores. storeID references Store

Points_ stores. pointID references Points

Cheques (chequeID, amount, date, sender_ name, bank_ name, receiver_ name, clientID)

Cheques. clientID references Client.

Loan (loanID ,start_date ,end_ date ,type ,state ,amount , interest_ rate , userID)

Loan. clientID references Client.

Charity (charityID, contact_ number, name, address, charity_ account_ number, clientID, adminID)

Charity. clientID references Client.

Charity. adminID references Admin.

Transfer (transferID, type, bank_ name, date_ and_ time, amount, recivedclientID, makeclientID)

Transfer. recivedclientID references Client.

Transfer. makeclientID references Client.

Domestic_ Transfer (transferID, type)

Domestic_ Transfer. transferID references Transfer.

International_ Transfer (transferID, IBAN_ number)

International_ Transfer. transferID references Transfer.

Bill (billID, due_ date, amount, type, receiver_ name, clientID)

Bill. clientID references Client.

Third_ Party (<u>thirdpartyID</u>, name, contact_ number, <u>transferID, billID, adminID, transactionID</u>)

Third_ Party transferID references Transfer.

Third_ Party. billID references Bill.

Third_ Party. adminID references Admin.

Third_ Party. transactionID references Transaction.

Document (<u>documentID</u>, file_ size, upload_ date, document_ type, file_ format, <u>clientID</u>)

Document. ClientID references Client.

Transaction (<u>transactionID</u>, sender_ account_ number, amount, receiver _account _number, date, status, description, <u>clientID)</u>

Transaction. ClientID references Client.

Notification (<u>notificationID</u>, notification_ message, date, type, <u>clientID</u>)

Notification. clientID references Client.

Certificate (<u>certificateID</u>, date_ closed, minimum _ amount, rate, date_ opened, <u>clientID, adminID</u>)

Certificate. clientID references Client.

Certificate. adminID references Admin.

Reminders (<u>reminderID</u>, description, date, amount, payment_ type, <u>clientID</u>)

Reminders. clientID references Client.

Application (<u>applicationID</u>, status, date, <u>clientID</u>)

Application. ClientID references Client.

Bankers_ Applications (<u>applicationID, bankerID</u>)

Bankers_ Applications. applicationID references Application.

Bankers_ Applications. bankerID references Banker.

New_ Account_ Application(<u>applicationID,</u> type)

New_ Account_ Application. applicationID references Application.

Loan_ Application(<u>applicationID,</u> type , amount<u>)</u>

Loan_ Application. applicationID references Application.

Card_ Application(applicationID, type)

Card_ Application. applicationID references Application.

Report (reportID, status, date, clientID, adminID)

Report. clientID references Client.

Report. adminID references Admin.

Technical_ issue (reportID)

Technical_ issue. reportID references Report

Creditcard_ Report (reportID, type , cardID)

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Creditcard_ Report. reportID references Report.

Creditcard_ Report. cardID references Credit Card