

Milestone 1
Relational Schema
Team Number : 58

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Relational Schema

User(User_id , National_id , Phone_no. , First_name , Last_name)

Login_credentials(Username , password , security_questions , User_id)

Login_credentials.User_id references User.User_id

Branch(Branch_id , Address , Location , Phone_no.)

Banker(Banker_id , Branch_id)

Banker.Banker_id references User.User_id

Banker.Branch_id references Branch.Branch_id

Admin(Admin_id)

Admin.Admin_id references User.User_id

Technical_issues(Issue_id , Date , Description , Admin_id)

Technical_issues.Admin_id references Admin.Admin_id

Client(Client_id , Address)

Client.Client_id references User.User_id

Blind(Voice_id , Client_id)

Blind.Client_id references Client.Client_id

Account(Account_no. , balance , Interest_rate , status , Client_id)

Account.Client_id references Client.Client_id

Current_account(Account_no. , Monthly_fees)

Current_account.Account_no. references Account.Account_no.

Savings_account(Account_no. , Minimum_balance)

Savings_account.Account_no. references Account.Account_no.

Frequently_asked_questions(Question_id , Question , Answer)

Application(Application_id , Date , Status , Client_id , Submitted_documents)

Application.Client_id references Client.Client_id

Card_application(Application_id)

Card_application.Application_id references Application.Application_id

Loan_application(Application_id)

Loan_application.Application_id references Application.Application_id

Review(Application_id , Banker_id , Status)
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Review.Application_id references Application.Application_id

Review.Banker_id references Banker.Banker_id

Customer_report(Report_id , Type , Date , Content , Client_id)

Customer_report.Client_id references Client.Client_id

CreditCard_Report(Report_id , Card_no.)

CreditCard_Report.Report_id references Customer_report.report_id
CreditCard_Report.Card_no. references Credit_card.Card_no.

Notifications(Notification_id , Description)

Receive(Notification_id , Client_id)

Receive.Notification.id references Notifications.Notification.id
Receive.Client_id references Client.Client_id

Banking_notifications(banker_id , Notification_id)

Banking_notifications.banker_id references Banker.Banker_id
Banking_notifications.Notification.id references Notifications.Notification.id

Announcements(Admin_id , Announcement_id)

Announcements.Admin_id references Admin.Admin_id
Announcements.Announcement_id references Notifications.Notification.id

Reminders_notifications(Notification_id , Reminder_id)

Reminders_notifications.Notification.id references Notifications.Notification.id
Reminders_notifications.Reminder_id references Reminders.Reminder_id

Reminders(Reminders_id , Due_date , name , Client_id)

Reminders.Cliend_id references Client.Client_id

Card_reminders(Reminder_id , Card_payment_id)

Card_reminders.Reminder_id references Reminder.Reminder_id

Card_reminders.Card_payment_id references Card_payments.Card_payment_id

Loan_reminders(Reminder_id , Loan_payment_id)

Loan_reminders.Reminder_id references Reminder.Reminder_id

Loan_reminders.Loan_payment_id references Loan_payments.Loan_payment_id

Bill_reminders(Reminder_id , Transaction_id)

Bill_reminders.Reminder_id references Reminder.Reminder_id

Bill_reminders.Transaction_id references Bill_payment.Transaction_id

Credit_card(Card_no. , Limit , Current_balance , Expiration_date , Current_points , Card_bill ,
Status , Application_id , Client_id)

Credit_card.Client_id references Client.Client_id

Credit_card.Application_id references Card_application.application_id

Card_payments(Card_no. , Card_payment_id , Date , Amount , Client_id)

Card_payments.Card_no. references Credit_card.Card_no.

Card_payments.Client_id references Client.Client_id

Loan(Loan_id , Current_dept , Type , Amount , Interest_rate , Application_id , Client_id)

Loan.Application_id references Loan_application.Application_id

Loan.Client_id references Client.Client_id

Loan_payments(Loan_payment_id , Loan_id , Amount , Date , Client_id)

Loan_payments.Loan_id references Loan.Loan_id

Loan_payments.Client_id references Client.Client_id

Transactions(Transaction_id , Date , Amount , Status , Client_id)

Transactions.Client_id references Client.Client_id

ThirdPartyApi(ApiKey , EndPoint , ResponseType, Name)

Bill_payment(Transaction_id , Type , Company_id , ApiKey)

Bill_payment.Transaction_id references Transaction.Transaction_id

Bill_payment.Company_id references External_billing_companies.Company_id

Bill_payment.ApiKey references ThirdPartyApi.ApiKey

External_billing_companies(Company_id , Name , Phone_no. , E-mail , Type , Bank_name ,
Bank_account_no.)

Deposit/Withdrawal(Transaction_id , Type)

Deposit/Withdrawal.Transaction_id references Transaction.Transaction_id

Credit_card_transactions(Transaction_id , Receiving_entity , Card_no.)

Credit_card_transactions.Transaction_id references Transaction.Transaction_id

Credit_card_transactions.Card_no. references Credit_card.Card_no.

transfers(Transaction_id)

transfers.Transaction_id references Transaction.Transaction_id

international(Transaction_id , Exchange_rate , Country , Bank_name , Receiver_account_no.)

international.Transaction_id references transfers.Transaction_id

domestic(Transaction_id , Bank_name , Receiver_account_no.)

domestic.Transaction_id references transfers.Transaction_id

Internal(Transaction_id , Client_id)

Internal.Transaction_id references transfers.Transaction_id

internal.Client_id references Client.Client_id

