

Relational Schema

N.B. **BLUE** words are foreign keys

CLIENT (ID, First_name, Last_name, Password, Email, Phone Number)

BANKER (ID, First_name, Last_name, Password, Phone Number)

ADMIN (ID, First_name, Last_name, Password, Email, Phone Number)

PROBLEM(Problem_id, Type, **Banker_id**, **Client_id**, **Admin_id**)

PROBLEM.Banker_id references BANKER.ID

PROBLEM.Client_id references CLIENT.ID

PROBLEM.Admin_id references ADMIN.ID

BANKER-PROBLEM(Banker_id, Problem_id)

BANKER-PROBLEM.Banker_id references BANKER.ID

BANKER-PROBLEM.Problem_id references PROBLEM.Problem.ID

ADMIN-PROBLEM(Admin_id, Problem_id)

ADMIN-PROBLEM.Admin_id references ADMIN.ID

ADMIN-PROBLEM.Problem_id references PROBLEM.Problem.ID

ACCOUNT (ID, Type, Balance, **Client_id**)

ACCOUNT.Client_id references CLIENT.ID

BANKER-ACCOUNT(Banker_id, Account_id)

BANKER-ACCOUNT.Banker_id references BANKER.ID

BANKER-ACCOUNT.Account_id references ACCOUNT.ID

DONATIONS (ID, Amount, Charity Name, Charity Account Number, **Account_id**)

DONATIONS.Account_id references ACCOUNT.ID

BILL PAYMENTS (ID, Type, Vendor, Amount, **Account_id**)

BILL PAYMENTS.Account_id references ACCOUNT.ID

CARD (Card_Number, Issue_date, Expiry_date, Type, Balance, CVV, **Account_id**)

CARD.Account_id references ACCOUNT.ID

TRANSACTION (ID, Type, Amount, Date, **Account_id**)

TRANSACTION.Account_id references ACCOUNT.ID

CERTIFICATES (ID, Interest Rate, Issuing Date, Duration, **Account_id**)

CERTIFICATES.Account_id references ACCOUNT.ID

LOANS (ID, Type, Due date, Instalment Amount, Interest Rate, **Account_id**, **Banker_id**)

LOANS.Account_id references ACCOUNT.ID