

LOGICAL MODEL (RELATIONAL MODEL)

Group 14

Pramoth Guhan

Akshaya Murugan

(857) 891-6677 (Tel of Student 1)

(857) 423-5726 (Tel of Student 2)

guhan.p@northeastern.edu

murugan.ak@northeastern.edu

Percentage of Effort Contributed by Student 1: 50

Percentage of Effort Contributed by Student 2: 50

Signature of Student 1: Pramoth Guhan

Signature of Student 2: Akshaya Murugan

Submission Date: 03/03/2024

TRANSACTION (T_ID, T_Status, T_Time, T_Amount)

Primary key – T_ID, NOT NULL

ACCOUNT (Acc_ID, DateReg, AccType, Acc_Bal, A_IntRate, C_ID, B_ID, T_ID)

Primary key – Acc_ID, DateReg, both NOT NULL

Foreign keys – C_ID from CUSTOMER relation, NOT NULL; B_ID from BRANCH relation, NOT NULL; T_ID from TRANSACTION relation, NOT NULL

BRANCH (B_ID, B_Add, B_Email, B_Phn, Acc_ID, E_ID, L_ID)

Primary key – B_ID, NOT NULL

Foreign keys – Acc_ID from ACCOUNT, E_ID from EMPLOYEE, L_ID from LOAN, NOT NULL

EMPLOYEE (E_ID, E_Name, E_Email, E_Phn, E_Add, Rate)

Primary key – E_ID, NOT NULL

LOAN (L_ID, L_Type, L_Amt, Duration, B_ID, C_ID)

Primary key – L_ID, NOT NULL

Foreign key – B_ID from BRANCH, C_ID from CUSTOMER, NOT NULL

CUSTOMER (C_ID, C_Name, C_Add, C_Phn, Income, T_ID, Acc_ID, B_ID, L_ID, CreditNo)

Primary key – C_ID, NOT NULL

Foreign key – T_ID from TRANSACTION, Acc_ID from ACCOUNT, B_ID from BRANCH, L_ID from LOAN, CreditNo from CREDIT CARD, NOT NULL

CREDIT CARD (CreditNo, ExpiryDate, Score, Limit, BalAmt)

Primary key – CreditNo, NOT NULL

PAYMENT CREDIT (CreditNo, PaidAmt, PayDate, CreditInt, C_ID, T_ID)

Primary key – CreditNo derived from CREDIT CARD

Foreign key – C_ID from CUSTOMER, T_ID from TRANSACTION, NOT NULL