# Team Banks Data Modelling for Budgeting app

## DRAFT 1

A diagram of a data flow

Description automatically generatedA diagram of a data flow

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SQL:  
-- Drop the tables

**DROP** **TABLE** TransactionLogs;

**DROP** **TABLE** Guardian\_Information;

**DROP** **TABLE** CustomerInformation;

-- Create tables with IDENTITY property

**CREATE** **TABLE** CustomerInformation (

AccountNo **VARCHAR**(255) **NOT** **NULL** **PRIMARY** **KEY**,

FirstName **VARCHAR**(255) **NOT** **NULL**,

LastName **VARCHAR**(255) **NOT** **NULL**,

DOB **DATE** **NOT** **NULL**,

PIN **VARCHAR**(255) **NOT** **NULL**,

Balance **INT** **NOT** **NULL**

);

**CREATE** **TABLE** Guardian\_Information (

GuardianID **VARCHAR**(255) **NOT** **NULL** **PRIMARY** **KEY**,

FirstName **VARCHAR**(255) **NOT** **NULL**,

LastName **VARCHAR**(255) **NOT** **NULL**,

DOB **DATE** **NOT** **NULL**,

AccessLevel **VARCHAR**(255) **CHECK** (AccessLevel **IN** ('Low', 'Medium', 'Full')) **NOT** **NULL**,

CustomerInformation\_AccountNo **VARCHAR**(255) **NOT** **NULL**,

**FOREIGN** **KEY** (CustomerInformation\_AccountNo) **REFERENCES** CustomerInformation(AccountNo)

);

**CREATE** **TABLE** TransactionLogs (

TransactionID **VARCHAR**(255) **NOT** **NULL** **PRIMARY** **KEY**,

TransactionType **VARCHAR**(255) **NOT** **NULL**,

Amount **INT** **NOT** **NULL**,

CustomerInformation\_AccountNo **VARCHAR**(255) **NOT** **NULL**,

**FOREIGN** **KEY** (CustomerInformation\_AccountNo) **REFERENCES** CustomerInformation(AccountNo)

);

**insert** **into** customerinformation (AccountNo, FirstName, LastName, DOB, PIN, Balance)

**VALUES**

('C123456789', 'John', 'Doe', '1990-01-01', '1234', 1000),

('C123432411', 'Connor', 'Lee', '2000-02-01', '2345', 2000),

('C143212311', 'Mike', 'Coxs', '2002-06-01', '4532', 10000),

('C231411132', 'Shane', 'Murphy', '2003-07-01', '2213', 100);

**INSERT** **INTO** Guardian\_Information (GuardianID, FirstName, LastName, DOB, AccessLevel, CustomerInformation\_AccountNo)

**VALUES** ('G123456789', 'Helen', 'Kells', '1990-01-01', 'Low', 'C123456789'),

('G987654321', 'James', 'Born', '1985-05-15', 'Medium', 'C123432411'),

('G123154321', 'Ciaran', 'Smith', '1989-01-05', 'Medium', 'C143212311'),

('G200052321', 'Mary', 'Smith', '1940-11-10', 'Full', 'C231411132');

**INSERT** **INTO** TransactionLogs (TransactionID, TransactionType, Amount, CustomerInformation\_AccountNo)

**VALUES** ('T123456789', 'Deposit', 500, 'C123456789'),

('T123123189', 'Deposit', 500, 'C123432411'),

('T977221021', 'Withdrawal', 200, 'C231411132'),

('T008921321', 'Withdrawal', 200, 'C143212311');