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**דו"ח על בסיס נתונים- הלוואות בנק**

**DSD**

* **Loan Table**
  + Loan\_ID (PK)
  + LoanStartDate
  + Borrower\_ID (FK)
* **PaymentSchedule Table**
  + Schedule\_ID (PK)
  + DueDate
  + Loan\_ID (FK)
* **Borrower Table**
  + Borrower\_ID (PK)
  + DateOfBirth

**Relationships**:

* **Loan** (Loan\_ID) → **Borrower** (Borrower\_ID)
* **Loan** (Loan\_ID) → **PaymentSchedule** (Loan\_ID)

**SQL**

CREATE TABLE Borrower

(

Borrower\_ID INT NOT NULL,

DateOfBirth DATE NOT NULL,

PRIMARY KEY (Borrower\_ID)

);

CREATE TABLE Loan

(

Loan\_ID INT NOT NULL,

LoanStartDate DATE NOT NULL,

Borrower\_ID INT NOT NULL,

PRIMARY KEY (Loan\_ID),

FOREIGN KEY (Borrower\_ID) REFERENCES Borrower(Borrower\_ID)

);

CREATE TABLE PaymentSchedule

(

Schedule\_ID INT NOT NULL,

DoeDate DATE NOT NULL,

Loan\_ID INT NOT NULL,

PRIMARY KEY (Schedule\_ID),

FOREIGN KEY (Loan\_ID) REFERENCES Loan(Loan\_ID)

);

**קובץ createTables.sql**

-- Create the Loan table

CREATE TABLE Loan (

LoanID INT PRIMARY KEY,

LoanStartDate DATE NOT NULL,

BorrowerID INT,

FOREIGN KEY (BorrowerID) REFERENCES Borrower(BorrowerID)

);

-- Create the PaymentSchedule table

CREATE TABLE PaymentSchedule (

ScheduleID INT PRIMARY KEY,

DueDate DATE NOT NULL,

LoanID INT,

FOREIGN KEY (LoanID) REFERENCES Loan(LoanID)

);

-- Create the Borrower table

CREATE TABLE Borrower (

BorrowerID INT PRIMARY KEY,

BorrowerName VARCHAR(100) NOT NULL,

BorrowerAddress VARCHAR(255) NOT NULL

);

**קובץ dropTables.sql**

-- Drop the PaymentSchedule table first

DROP TABLE PaymentSchedule;

-- Drop the Loan table second

DROP TABLE Loan;

-- Drop the Borrower table last

DROP TABLE Borrower;

**קובץ insertTables.sql**

-- Insert data into Borrower table

INSERT INTO Borrower (BorrowerID, BorrowerName, BorrowerAddress) VALUES (1, 'John Doe', '123 Elm Street');

-- Repeat with at least 200 records

-- Insert data into Loan table

INSERT INTO Loan (LoanID, LoanStartDate, BorrowerID) VALUES (1, '2024-01-01', 1);

-- Repeat with at least 200 records

-- Insert data into PaymentSchedule table

INSERT INTO PaymentSchedule (ScheduleID, DueDate, LoanID) VALUES (1, '2024-02-01', 1);

-- Repeat with at least 200 records

**קובץ selectAll.sql**

-- Select all data from Borrower table

SELECT \* FROM Borrower;

-- Select all data from Loan table

SELECT \* FROM Loan;

-- Select all data from PaymentSchedule table

SELECT \* FROM PaymentSchedule;