SQL Stored Procedures

Stored Procedures:

```
(1) Login
```

- (2) Get students
- (3) Create Account
- (4) Get Account Details for Main Display
- (5) Create Student from new account
- (6) Create Account
- (7) Edit Account
- (8) Deposit Monies
- (9) Withdraw Monies
- (10) Create transaction
- (11) Get Recipient Name
- (12) Create Transfer
- (13) Get All Transactions Details
- (14) Get All Transfer Details per account
- (15) Get All Account Details per specified account

(1) Login

(2) Get students

```
CREATE PROCEDURE spGetStudents
AS
SELECT *
FROM Students
```

```
(3) Create Account
CREATE PROCEDURE spCreateAccount
       @AccountType NVARCHAR(20),
       @SortCode NVARCHAR(10),
       @InitialBalance INTEGER,
       @CurrentBalance INTEGER,
       @OverdraftLimit INTEGER,
       @StudentId INTEGER,
       @AccountNum INTEGER OUTPUT
AS
DECLARE @AcNoInserted TABLE
       AccIdValue INTEGER
);
BEGIN
       SET NOCOUNT ON
       INSERT INTO Accounts
       (AccountType, SortCode, InitialBalance, CurrentBalance, OverdraftLimit,
StudentID)
       OUTPUT inserted AccountNumber INTO @AcNoInserted(AccIdValue)
       VALUES
       (@AccountType, @SortCode, @InitialBalance, @CurrentBalance, @OverdraftLimit,
@StudentId)
       SELECT
       @AccountNum = AccIdValue FROM @AcNoInserted
END
(4) Get Account Details for Main Display
CREATE PROCEDURE spGetAccountDetails
SELECT *
FROM Accounts
Test:
EXEC spGetAccountDetails
```

```
(5) Create Student from new account
CREATE PROCEDURE spCreateStudent
       @FirstName NVARCHAR(50),
    @LastName NVARCHAR(50),
    @Email NVARCHAR(80),
    @PhoneNumber NVARCHAR(30),
    @Address1 NVARCHAR(50),
    @Address2 NVARCHAR(50),
    @City NVARCHAR(50),
    @County NVARCHAR(50),
       @StudentId INTEGER OUTPUT
AS
DECLARE @StudIdInserted TABLE
       StudIdValue INTEGER
);
BEGIN
             SET NOCOUNT ON
              INSERT INTO Students
              (FirstName, LastName, Email, PhoneNumber, Address1, Address2, City,
County)
             OUTPUT inserted.StudentID INTO @StudIdInserted(StudIdValue)
             VALUES
              (@FirstName, @LastName, @Email, @PhoneNumber, @Address1, @Address2,
@City, @County)
              SELECT
             @StudentId = StudIdValue FROM @StudIdInserted
END
(6) Create Account
CREATE PROCEDURE spCreateAccount
       @AccountType NVARCHAR(20),
       @SortCode NVARCHAR(10),
       @InitialBalance INTEGER,
       @OverdraftLimit INTEGER,
       @StudentId INTEGER,
       @AccountNum INTEGER OUTPUT
AS
DECLARE @AcNoInserted TABLE
       AccIdValue INTEGER
);
BEGIN
       SET NOCOUNT ON
       INSERT INTO Accounts
       (AccountType, SortCode, InitialBalance, OverdraftLimit, StudentID)
       OUTPUT inserted.AccountNumber INTO @AcNoInserted(AccIdValue)
       VALUES
       (@AccountType, @SortCode, @InitialBalance, @OverdraftLimit, @StudentId)
       @AccountNum = AccIdValue FROM @AcNoInserted
END
```

```
(7) Edit Account
CREATE PROCEDURE [dbo].[spEditStudentDetails]
                     @email NVARCHAR(80),
                     @phone NVARCHAR(30),
                     @add1 NVARCHAR(50),
                     @add2 NVARCHAR(50),
                     @city NVARCHAR(50),
                     @county NVARCHAR(50),
                     @studID INTEGER
AS
BEGIN
UPDATE Students
SET
       Email = @email,
       PhoneNumber = @phone,
       Address1 = @add1,
       Address2 = @add2,
       City = @city,
       County = @county
WHERE
       StudentID = @studID
END
(8) Deposit Monies
CREATE PROCEDURE [dbo].[spDeposit]
                     @newbalance INTEGER,
                     @accNum INTEGER,
                     @accType NVARCHAR(20)
AS
BEGIN
UPDATE Accounts
SET
       CurrentBalance = @newbalance
WHERE
       AccountNumber = @accNum
       AccountType = @accType
END
(9) Withdraw Monies
CREATE PROCEDURE [dbo].[spWithdraw]
                     @newbalance INTEGER,
                     @accNum INTEGER,
                     @accType NVARCHAR(20)
AS
BEGIN
UPDATE Accounts
       CurrentBalance = @newbalance
WHERE
       AccountNumber = @accNum
       AccountType = @accType
END
```

```
(10) Create transaction
CREATE PROCEDURE spCreateTransaction
                         @TransType NVARCHAR (50),
                         @AccNo INTEGER,
                         @Date DATETIME,
                         @Ammount INTEGER,
                         @Balance INTEGER,
                         @TransactionID INTEGER OUTPUT
AS
DECLARE @TransactinoCreated TABLE
                         TransactionIdValue INTEGER
);
BEGIN
                         SET NOCOUNT ON
                         INSERT INTO Transactions
                         (Transaction Type, \ Account Number, \ Date Time Of Transaction, \ Transaction Ammount, \
Balance)
                        OUTPUT inserted.TransactionNumber INTO @TransactinoCreated(TransactionIdValue)
                         VALUES
                         (@TransType, @AccNo, @Date, @Ammount, @Balance)
                         SELECT
                         @TransactionID = TransactionIdValue FROM @TransactinoCreated
END
(11) Get Recipient Name
CREATE PROCEDURE spGetStudentName
                                                 @StudentID INTEGER
AS
BEGIN
                                                 SET NOCOUNT ON
                                                 SELECT s.FirstName, s.LastName
                                                 FROM Students s
                                                 WHERE s.StudentID = @StudentID
END
```

```
(12) Create Transfer
CREATE PROCEDURE spCreateTransferRecord
              @RecName VARCHAR(100),
             @DebitedAcc INTEGER,
              @TransactionNum INTEGER,
             @DesctinationSCode VARCHAR(10),
             @DestinationAccNo INTEGER,
             @TransferAmmount INTEGER,
              @Date DATETIME,
              @Description NVARCHAR(200)
AS
BEGIN
             SET NOCOUNT ON
              INSERT INTO Transfers
              (RecepientName, DebitedAccount, TransactionNumber, DestinationSortCode,
DestinationAccountNumber, TransferAmmount, DateTimeOfTransfer, TransferDescription)
             VALUES (@RecName, @DebitedAcc, @TransactionNum, @DesctinationSCode,
@DestinationAccNo, @TransferAmmount, @Date, @Description)
(13) Get All Transactions Details
CREATE PROCEDURE spGetTransactionsDetails
AS
SELECT *
FROM Transactions
Test:
EXEC spGetTransactionsDetails
(14) Get All Transfer Details per account
CREATE PROCEDURE spGetTransfers
AS
BEGIN
       SELECT t1.AccountNumber, t1.TransactionNumber, t1.TransactionType,
t1.DateTimeOfTransaction, t1.TransactionAmmount, t2.DestinationSortCode,
t2.DestinationAccountNumber, t2.TransferDescription
       FROM Transactions AS t1
       INNER JOIN Transfers AS t2
       ON t1.TransactionNumber = t2.TransactionNumber
END
(15) Get All Account Details per specified account
CREATE PROCEDURE spGetAccount
       @accNo INTEGER
AS
BEGIN
       SET NOCOUNT ON
       SELECT *
       FROM Accounts
       WHERE Accounts.AccountNumber = @accNo
END
```