```sql
CREATE DATABASE dbNatillera
GO

USE dbNatillera
GO


IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Audits]') AND type IN ('U'))
        DROP TABLE [dbo].[Audits]
GO

CREATE TABLE [dbo].[Audits] (
  [auditId] bigint  IDENTITY(1,1) NOT NULL,
  [userId] int  NOT NULL,
  [tableName] nvarchar(128) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [detail] nvarchar(max) COLLATE Modern_Spanish_CI_AS  NULL,
  [ipAddress] nvarchar(64) COLLATE Modern_Spanish_CI_AS  NULL,
  [sessionId] nvarchar(64) COLLATE Modern_Spanish_CI_AS  NULL,
  [typeAudit] nvarchar(16) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [typeDevice] nvarchar(16) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [createdAt] datetime2(0) DEFAULT sysutcdatetime() NOT NULL
)
GO

ALTER TABLE [dbo].[Audits] SET (LOCK_ESCALATION = TABLE)
GO



IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Closures]') AND type IN ('U'))
        DROP TABLE [dbo].[Closures]
GO

CREATE TABLE [dbo].[Closures] (
  [closureId] int  IDENTITY(1,1) NOT NULL,
  [transactionId] bigint  NOT NULL,
  [closedAt] datetime2(0) DEFAULT sysutcdatetime() NOT NULL,
  [totalLoanInterest] decimal(16,2)  NOT NULL,
  [totalSalesProfit] decimal(16,2)  NOT NULL,
  [observation] nvarchar(250) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] bit  NOT NULL
)
GO

ALTER TABLE [dbo].[Closures] SET (LOCK_ESCALATION = TABLE)
GO
```

```sql
-- ----------------------------
-- Table structure for Funds
-- ----------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Funds]') AND type IN ('U'))
        DROP TABLE [dbo].[Funds]
GO

CREATE TABLE [dbo].[Funds] (
  [fundId] int  IDENTITY(1,1) NOT NULL,
  [name] nvarchar(120) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [mode] nvarchar(10) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [enableCredit] bit DEFAULT 0 NOT NULL,
  [enableSales] bit DEFAULT 0 NOT NULL,
  [interestRatePct] decimal(6,3) DEFAULT 2.000 NOT NULL,
  [profitDistribution] nvarchar(12) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [adminUserId] int  NULL,
  [startDate] date  NOT NULL,
  [endDate] date  NOT NULL,
  [periodicity] nvarchar(12) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [slots] int  NULL,
  [createdAt] datetime2(0) DEFAULT sysutcdatetime() NULL,
  [observation] varchar(255) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] bit  NOT NULL
)
GO

ALTER TABLE [dbo].[Funds] SET (LOCK_ESCALATION = TABLE)
GO

EXEC sp_addextendedproperty
'MS_Description', N'common|turn|individual',
'SCHEMA', N'dbo',
'TABLE', N'Funds',
'COLUMN', N'mode'
GO

EXEC sp_addextendedproperty
'MS_Description', N'proportional|equitable',
'SCHEMA', N'dbo',
'TABLE', N'Funds',
'COLUMN', N'profitDistribution'
GO

EXEC sp_addextendedproperty
'MS_Description', N'Solo si se maneja turnos',
```

```
'SCHEMA', N'dbo',
'TABLE', N'Funds',
'COLUMN', N'slots'
GO



-- ----------------------------
-- Table structure for Loans
-- ----------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Loans]') AND type IN ('U'))
        DROP TABLE [dbo].[Loans]
GO

CREATE TABLE [dbo].[Loans] (
  [loanId] int  IDENTITY(1,1) NOT NULL,
  [transactionId] bigint  NOT NULL,
  [membershipId] int  NOT NULL,
  [amount] decimal(14,2)  NOT NULL,
  [ratePct] decimal(6,3)  NOT NULL,
  [status] nvarchar(12) COLLATE Modern_Spanish_CI_AS DEFAULT N'solicitado' NOT
NULL,
  [createdAt] datetime2(0) DEFAULT sysutcdatetime() NOT NULL,
  [paymentDate] date  NOT NULL,
  [observation] varchar(255) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] bit  NOT NULL
)
GO

ALTER TABLE [dbo].[Loans] SET (LOCK_ESCALATION = TABLE)
GO

EXEC sp_addextendedproperty
'MS_Description', N'% de interes',
'SCHEMA', N'dbo',
'TABLE', N'Loans',
'COLUMN', N'ratePct'
GO



-- ----------------------------
-- Table structure for Memberships
-- ----------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Memberships]') AND type IN ('U'))
        DROP TABLE [dbo].[Memberships]
GO
```

```sql
CREATE TABLE [dbo].[Memberships] (
  [membershipId] int  IDENTITY(1,1) NOT NULL,
  [fundId] int  NOT NULL,
  [userId] int  NOT NULL,
  [createdAt] datetime  NOT NULL,
  [isDeleted] bit  NOT NULL
)
GO

ALTER TABLE [dbo].[Memberships] SET (LOCK_ESCALATION = TABLE)
GO



-- ---------------------------
-- Table structure for Sales
-- ---------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Sales]') AND type IN ('U'))
        DROP TABLE [dbo].[Sales]
GO

CREATE TABLE [dbo].[Sales] (
  [saleId] int  IDENTITY(1,1) NOT NULL,
  [transactionId] bigint  NOT NULL,
  [saleDate] date  NOT NULL,
  [observation] nvarchar(250) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] bit  NOT NULL
)
GO

ALTER TABLE [dbo].[Sales] SET (LOCK_ESCALATION = TABLE)
GO



-- ---------------------------
-- Table structure for TransactionDetails
-- ---------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[TransactionDetails]') AND type IN ('U'))
        DROP TABLE [dbo].[TransactionDetails]
GO

CREATE TABLE [dbo].[TransactionDetails] (
  [detailId] bigint  IDENTITY(1,1) NOT NULL,
  [transactionId] bigint  NOT NULL,
  [membershipId] int  NULL,
  [direction] nvarchar(8) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [amount] decimal(14,2)  NOT NULL,
```

```sql
  [note] nvarchar(250) COLLATE Modern_Spanish_CI_AS  NULL,
  [status] nvarchar(16) COLLATE Modern_Spanish_CI_AS DEFAULT N'preapproved' NOT
NULL,
  [imageUrl] nvarchar(500) COLLATE Modern_Spanish_CI_AS  NULL,
  [observation] varchar(255) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] varchar(255) COLLATE Modern_Spanish_CI_AS  NULL
)
GO

ALTER TABLE [dbo].[TransactionDetails] SET (LOCK_ESCALATION = TABLE)
GO

EXEC sp_addextendedproperty
'MS_Description', N'in, out',
'SCHEMA', N'dbo',
'TABLE', N'TransactionDetails',
'COLUMN', N'direction'
GO

EXEC sp_addextendedproperty
'MS_Description', N'"preapproved"|"approved"|"rejected"',
'SCHEMA', N'dbo',
'TABLE', N'TransactionDetails',
'COLUMN', N'status'
GO



-- ----------------------------
-- Table structure for Transactions
-- ----------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Transactions]') AND type IN ('U'))
        DROP TABLE [dbo].[Transactions]
GO

CREATE TABLE [dbo].[Transactions] (
  [transactionId] bigint  IDENTITY(1,1) NOT NULL,
  [fundId] int  NOT NULL,
  [lineType] nvarchar(20) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [note] nvarchar(250) COLLATE Modern_Spanish_CI_AS  NULL
)
GO



ALTER TABLE [dbo].[Transactions] SET (LOCK_ESCALATION = TABLE)
GO

EXEC sp_addextendedproperty
```

```sql
'MS_Description', N'contribution|sale|loan|turn|closure',
'SCHEMA', N'dbo',
'TABLE', N'Transactions',
'COLUMN', N'lineType'
GO



-- ---------------------------
-- Table structure for Turns
-- ---------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Turns]') AND type IN ('U'))
        DROP TABLE [dbo].[Turns]
GO

CREATE TABLE [dbo].[Turns] (
  [turnId] int  IDENTITY(1,1) NOT NULL,
  [membershipId] int  NOT NULL,
  [turnOrder] int  NOT NULL,
  [plannedDate] date  NULL,
  [transactionId] bigint  NULL,
  [executedAt] datetime  NULL,
  [isCurrent] bit DEFAULT 0 NOT NULL,
  [observation] varchar(255) COLLATE Modern_Spanish_CI_AS  NULL,
  [isDeleted] bit  NOT NULL
)
GO



ALTER TABLE [dbo].[Turns] SET (LOCK_ESCALATION = TABLE)
GO



-- ---------------------------
-- Table structure for Users
-- ---------------------------
IF EXISTS (SELECT * FROM sys.all_objects WHERE object_id =
OBJECT_ID(N'[dbo].[Users]') AND type IN ('U'))
        DROP TABLE [dbo].[Users]
GO

CREATE TABLE [dbo].[Users] (
  [userId] int  IDENTITY(1,1) NOT NULL,
  [fullName] nvarchar(200) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [email] nvarchar(160) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [passwordHash] nvarchar(255) COLLATE Modern_Spanish_CI_AS  NOT NULL,
  [createdAt] datetime2(0) DEFAULT sysutcdatetime() NOT NULL,
```

```sql
  [isDeleted] bit  NOT NULL,
  [user] varchar(30) COLLATE Modern_Spanish_CI_AS  NOT NULL
)
GO

ALTER TABLE [dbo].[Users] SET (LOCK_ESCALATION = TABLE)
GO



-- ---------------------------
-- Auto increment value for Audits
-- ---------------------------
DBCC CHECKIDENT ('[dbo].[Audits]', RESEED, 1)
GO



-- ---------------------------
-- Indexes structure for table Audits
-- ---------------------------
CREATE NONCLUSTERED INDEX [IX_Audits_user_createdAt]
ON [dbo].[Audits] (
  [userId] ASC,
  [createdAt] DESC
)
GO

CREATE NONCLUSTERED INDEX [IX_Audits_sessionId]
ON [dbo].[Audits] (
  [sessionId] ASC
)
GO

CREATE NONCLUSTERED INDEX [IX_Audits_table_type_date]
ON [dbo].[Audits] (
  [tableName] ASC,
  [typeAudit] ASC,
  [createdAt] DESC
)
GO



-- ---------------------------
-- Primary Key structure for table Audits
-- ---------------------------
ALTER TABLE [dbo].[Audits] ADD CONSTRAINT [PK__Audits__43D1739947A172E0]
PRIMARY KEY CLUSTERED ([auditId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
```

```sql
ON [PRIMARY]
GO



-- --------------------------
-- Auto increment value for Closures
-- --------------------------
DBCC CHECKIDENT ('[dbo].[Closures]', RESEED, 1)
GO



-- --------------------------
-- Primary Key structure for table Closures
-- --------------------------
ALTER TABLE [dbo].[Closures] ADD CONSTRAINT
[PK__Closures__B853CC2FB19AAC49] PRIMARY KEY CLUSTERED ([closureId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO



-- --------------------------
-- Auto increment value for Funds
-- --------------------------
DBCC CHECKIDENT ('[dbo].[Funds]', RESEED, 1)
GO



-- --------------------------
-- Primary Key structure for table Funds
-- --------------------------
ALTER TABLE [dbo].[Funds] ADD CONSTRAINT [PK__Funds__3367260DDB65EBFD]
PRIMARY KEY CLUSTERED ([fundId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO



-- --------------------------
-- Auto increment value for Loans
-- --------------------------
DBCC CHECKIDENT ('[dbo].[Loans]', RESEED, 1)
GO



-- --------------------------
```

```sql
-- Primary Key structure for table Loans
-- ----------------------------
ALTER TABLE [dbo].[Loans] ADD CONSTRAINT [PK__Loans__6DB788FFA5750B66]
PRIMARY KEY CLUSTERED ([loanId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO


-- ----------------------------
-- Auto increment value for Memberships
-- ----------------------------
DBCC CHECKIDENT ('[dbo].[Memberships]', RESEED, 5)
GO


-- ----------------------------
-- Uniques structure for table Memberships
-- ----------------------------
ALTER TABLE [dbo].[Memberships] ADD CONSTRAINT [UQ_Memberships] UNIQUE
NONCLUSTERED ([fundId] ASC, [userId] ASC)
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO


-- ----------------------------
-- Primary Key structure for table Memberships
-- ----------------------------
ALTER TABLE [dbo].[Memberships] ADD CONSTRAINT
[PK__Membersh__86AA3B17976341A7] PRIMARY KEY CLUSTERED ([membershipId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO


-- ----------------------------
-- Auto increment value for Sales
-- ----------------------------
DBCC CHECKIDENT ('[dbo].[Sales]', RESEED, 1)
GO


-- ----------------------------
-- Primary Key structure for table Sales
```

```
-- --------------------------
ALTER TABLE [dbo].[Sales] ADD CONSTRAINT [PK__Sales__FAE8F4F533C33348]
PRIMARY KEY CLUSTERED ([saleId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- --------------------------
-- Auto increment value for TransactionDetails
-- --------------------------
DBCC CHECKIDENT ('[dbo].[TransactionDetails]', RESEED, 3)
GO




-- --------------------------
-- Primary Key structure for table TransactionDetails
-- --------------------------
ALTER TABLE [dbo].[TransactionDetails] ADD CONSTRAINT
[PK__Transact__830778594F088F36] PRIMARY KEY CLUSTERED ([detailId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- --------------------------
-- Auto increment value for Transactions
-- --------------------------
DBCC CHECKIDENT ('[dbo].[Transactions]', RESEED, 2)
GO




-- --------------------------
-- Primary Key structure for table Transactions
-- --------------------------
ALTER TABLE [dbo].[Transactions] ADD CONSTRAINT
[PK__Transact__9B57CF72B3AA0129] PRIMARY KEY CLUSTERED ([transactionId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- --------------------------
-- Auto increment value for Turns
-- --------------------------
```

```sql
DBCC CHECKIDENT ('[dbo].[Turns]', RESEED, 1)
GO




-- ---------------------------
-- Primary Key structure for table Turns
-- ---------------------------
ALTER TABLE [dbo].[Turns] ADD CONSTRAINT [PK__Turns__C2FF5E4A4195D1EB]
PRIMARY KEY CLUSTERED ([turnId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- ---------------------------
-- Auto increment value for Users
-- ---------------------------
DBCC CHECKIDENT ('[dbo].[Users]', RESEED, 5)
GO




-- ---------------------------
-- Uniques structure for table Users
-- ---------------------------
ALTER TABLE [dbo].[Users] ADD CONSTRAINT [UQ__Users__AB6E616496474748]
UNIQUE NONCLUSTERED ([email] ASC)
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- ---------------------------
-- Primary Key structure for table Users
-- ---------------------------
ALTER TABLE [dbo].[Users] ADD CONSTRAINT [PK__Users__CB9A1CFFA4CDF1E6]
PRIMARY KEY CLUSTERED ([userId])
WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY =
OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON)
ON [PRIMARY]
GO




-- ---------------------------
-- Foreign Keys structure for table Audits
-- ---------------------------
```

```
ALTER TABLE [dbo].[Audits] ADD CONSTRAINT [FK__Audits__userId__634EBE90]
FOREIGN KEY ([userId]) REFERENCES [dbo].[Users] ([userId]) ON DELETE NO ACTION
ON UPDATE NO ACTION
GO



-- ---------------------------
-- Foreign Keys structure for table Closures
-- ---------------------------
ALTER TABLE [dbo].[Closures] ADD CONSTRAINT [FK__Closures__transa__51300E55]
FOREIGN KEY ([transactionId]) REFERENCES [dbo].[Transactions] ([transactionId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO



-- ---------------------------
-- Foreign Keys structure for table Funds
-- ---------------------------
ALTER TABLE [dbo].[Funds] ADD CONSTRAINT [FK__Funds__adminUser__2DE6D218]
FOREIGN KEY ([adminUserId]) REFERENCES [dbo].[Users] ([userId]) ON DELETE NO
ACTION ON UPDATE NO ACTION
GO



-- ---------------------------
-- Foreign Keys structure for table Loans
-- ---------------------------
ALTER TABLE [dbo].[Loans] ADD CONSTRAINT [FK__Loans__transacti__47A6A41B]
FOREIGN KEY ([transactionId]) REFERENCES [dbo].[Transactions] ([transactionId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO

ALTER TABLE [dbo].[Loans] ADD CONSTRAINT [FK__Loans__membershi__498EEC8D]
FOREIGN KEY ([membershipId]) REFERENCES [dbo].[Memberships] ([membershipId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO



-- ---------------------------
-- Foreign Keys structure for table Memberships
-- ---------------------------
ALTER TABLE [dbo].[Memberships] ADD CONSTRAINT
[FK__Membershi__fundI__32AB8735] FOREIGN KEY ([fundId]) REFERENCES
[dbo].[Funds] ([fundId]) ON DELETE NO ACTION ON UPDATE NO ACTION
GO
```

```sql
ALTER TABLE [dbo].[Memberships] ADD CONSTRAINT
[FK__Membershi__userI__339FAB6E] FOREIGN KEY ([userId]) REFERENCES
[dbo].[Users] ([userId]) ON DELETE NO ACTION ON UPDATE NO ACTION
GO




-- ---------------------------
-- Foreign Keys structure for table Sales
-- ---------------------------
ALTER TABLE [dbo].[Sales] ADD CONSTRAINT [FK__Sales__transacti__43D61337]
FOREIGN KEY ([transactionId]) REFERENCES [dbo].[Transactions] ([transactionId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO




-- ---------------------------
-- Foreign Keys structure for table TransactionDetails
-- ---------------------------
ALTER TABLE [dbo].[TransactionDetails] ADD CONSTRAINT
[FK__Transacti__trans__756D6ECB] FOREIGN KEY ([transactionId]) REFERENCES
[dbo].[Transactions] ([transactionId]) ON DELETE NO ACTION ON UPDATE NO ACTION
GO

ALTER TABLE [dbo].[TransactionDetails] ADD CONSTRAINT
[FK__Transacti__membe__76619304] FOREIGN KEY ([membershipId]) REFERENCES
[dbo].[Memberships] ([membershipId]) ON DELETE NO ACTION ON UPDATE NO ACTION
GO




-- ---------------------------
-- Foreign Keys structure for table Transactions
-- ---------------------------
ALTER TABLE [dbo].[Transactions] ADD CONSTRAINT
[FK__Transacti__fundI__37703C52] FOREIGN KEY ([fundId]) REFERENCES [dbo].[Funds]
([fundId]) ON DELETE NO ACTION ON UPDATE NO ACTION
GO




-- ---------------------------
-- Foreign Keys structure for table Turns
-- ---------------------------
ALTER TABLE [dbo].[Turns] ADD CONSTRAINT [FK__Turns__membershi__3F115E1A]
FOREIGN KEY ([membershipId]) REFERENCES [dbo].[Memberships] ([membershipId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO
```

```
ALTER TABLE [dbo].[Turns] ADD CONSTRAINT [FK__Turns__transacti__40058253]
FOREIGN KEY ([transactionId]) REFERENCES [dbo].[Transactions] ([transactionId]) ON
DELETE NO ACTION ON UPDATE NO ACTION
GO
```