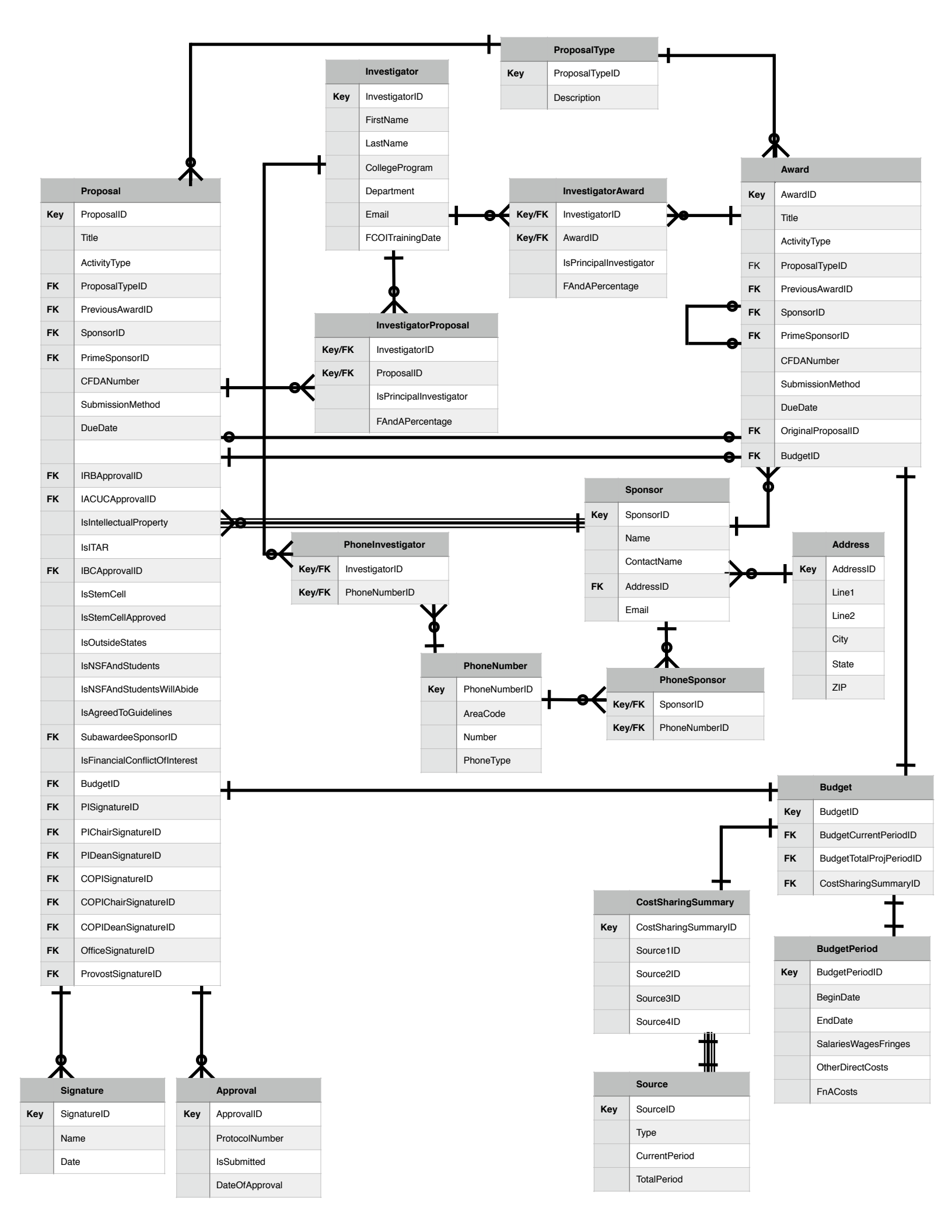
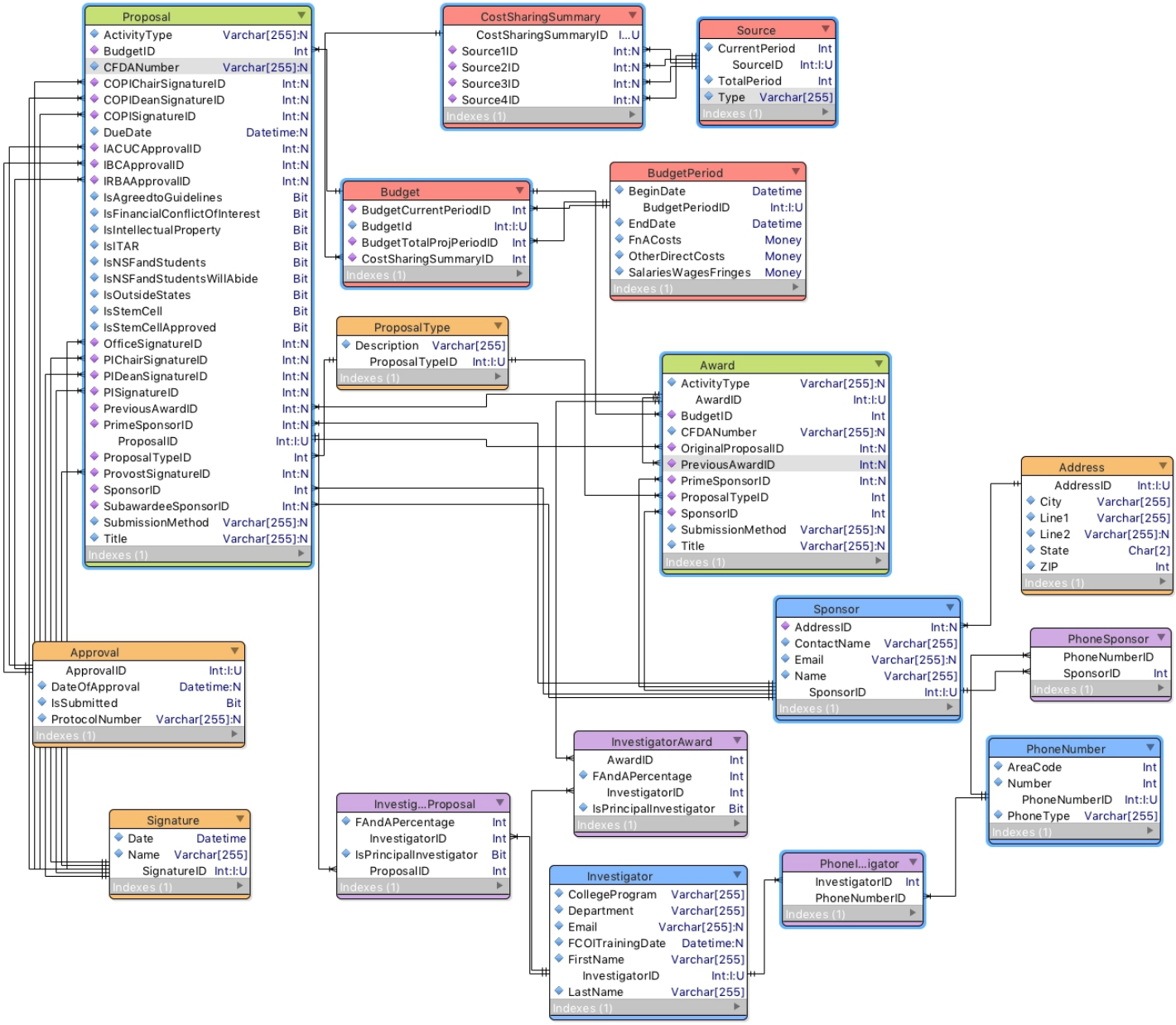
Sponsored Programs Database
Final Project

Zachary McKee
Brandon Emlaw


ProposalType
Key ProposalTypeID
Description
Investigator
Key InvestigatorID
FirstName
LastName
CollegeProgram
Department
Email
FCOITrainingDate
Award
Key AwardID
Title
ActivityType
FK ProposalTypeID
FK PreviousAwardID
FK SponsorID
FK PrimeSponsorID
CFDANumber
SubmissionMethod
DueDate
FK OriginalProposalID
FK BudgetID
InvestigatorAward
Key/FK InvestigatorID
Key/FK AwardID
IsPrincipalInvestigator
FAndAPercentage
Proposal
Key ProposalID
Title
ActivityType
FK ProposalTypeID
FK PreviousAwardID
FK SponsorID
FK PrimeSponsorID
CFDANumber
SubmissionMethod
DueDate
FK IRBApprovalID
FK IACUCApprovalID
IsIntellectualProperty
IsITAR
FK IBCApprovalID
IsStemCell
IsStemCellApproved
IsOutsideStates
IsNSFAndStudents
IsNSFAndStudentsWillAbide
IsAgreedToGuidelines
FK SubawardeeSponsorID
IsFinancialConflictOfInterest
FK BudgetID
FK PISignatureID
FK PIChairSignatureID
FK PIDeanSignatureID
FK COPISignatureID
FK COPIChairSignatureID
FK COPIDeanSignatureID
FK OfficeSignatureID
FK ProvostSignatureID
InvestigatorProposal
Key/FK InvestigatorID
Key/FK ProposalID
IsPrincipalInvestigator
FAndAPercentage
Sponsor
Key SponsorID
Name
ContactName
FK AddressID
Email
Address
Key AddressID
Line1
Line2
City
State
ZIP
PhoneInvestigator
Key/FK InvestigatorID
Key/FK PhoneNumberID
PhoneNumber
Key PhoneNumberID
AreaCode
Number
PhoneType
PhoneSponsor
Key/FK SponsorID
Key/FK PhoneNumberID
Budget
Key BudgetID
FK BudgetCurrentPeriodID
FK BudgetTotalProjPeriodID
FK CostSharingSummaryID
BudgetPeriod
Key BudgetPeriodID
BeginDate
EndDate
SalariesWagesFringes
OtherDirectCosts
FnACosts
CostSharingSummary
Key CostSharingSummaryID
Source1ID
Source2ID
Source3ID
Source4ID
Source
Key SourceID
Type
CurrentPeriod
TotalPeriod
Signature
Key SignatureID
Name
Date
Approval
Key ApprovalID
ProtocolNumber
IsSubmitted
DateOfApproval


Proposal
ActivityType Varchar[255]:N
BudgetID Int
CFDANumber Varchar[255]:N
COPIChairSignatureID Int:N
COPIDeanSignatureID Int:N
COPISignatureID Int:N
DueDate Datetime:N
IACUCApprovalID Int:N
IBCApprovalID Int:N
IRBAApprovalID Int:N
IsAgreedtoGuidelines Bit
IsFinancialConflictOfInterest Bit
IsIntellectualProperty Bit
IsITAR Bit
IsNSFandStudents Bit
IsNSFandStudentsWillAbide Bit
IsOutsideStates Bit
IsStemCell Bit
IsStemCellApproved Bit
OfficeSignatureID Int:N
PIChairSignatureID Int:N
PIDeanSignatureID Int:N
PISignatureID Int:N
PreviousAwardID Int:N
PrimeSponsorID Int:N
ProposalID Int:I:U
ProposalTypeID Int
ProvostSignatureID Int:N
SponsorID Int
SubawardeeSponsorID Int:N
SubmissionMethod Varchar[255]:N
Title Varchar[255]:N
Indexes (1)
CostSharingSummary
CostSharingSummaryID I...U
Source1ID Int:N
Source2ID Int:N
Source3ID Int:N
Source4ID Int:N
Indexes (1)
Source
CurrentPeriod Int
SourceID Int:I:U
TotalPeriod Int
Type Varchar[255]
Indexes (1)
Budget
BudgetCurrentPeriodID Int
BudgetId Int:I:U
BudgetTotalProjPeriodID Int
CostSharingSummaryID Int
Indexes (1)
BudgetPeriod
BeginDate Datetime
BudgetPeriodID Int:I:U
EndDate Datetime
FnACosts Money
OtherDirectCosts Money
SalariesWagesFringes Money
Indexes (1)
ProposalType
Description Varchar[255]
ProposalTypeID Int:I:U
Indexes (1)
Award
ActivityType Varchar[255]:N
AwardID Int:I:U
BudgetID Int
CFDANumber Varchar[255]:N
OriginalProposalID Int:N
PreviousAwardID Int:N
PrimeSponsorID Int:N
ProposalTypeID Int
SponsorID Int
SubmissionMethod Varchar[255]:N
Title Varchar[255]:N
Indexes (1)
Address
AddressID Int:I:U
City Varchar[255]
Line1 Varchar[255]
Line2 Varchar[255]:N
State Char[2]
ZIP Int
Indexes (1)
Sponsor
AddressID Int:N
ContactName Varchar[255]
Email Varchar[255]:N
Name Varchar[255]
SponsorID Int:I:U
Indexes (1)
PhoneSponsor
PhoneNumberID
SponsorID Int
Indexes (1)
Approval
ApprovalID Int:I:U
DateOfApproval Datetime:N
IsSubmitted Bit
ProtocolNumber Varchar[255]:N
Indexes (1)
InvestigatorAward
AwardID Int
FAndAPercentage Int
InvestigatorID Int
IsPrincipalInvestigator Bit
Indexes (1)
PhoneNumber
AreaCode Int
Number Int
PhoneNumberID Int:I:U
PhoneType Varchar[255]
Indexes (1)
Signature
Date Datetime
Name Varchar[255]
SignatureID Int:I:U
Indexes (1)
Investig...Proposal
FAndAPercentage Int
InvestigatorID Int
IsPrincipalInvestigator Bit
ProposalID Int
Indexes (1)
Investigator
CollegeProgram Varchar[255]
Department Varchar[255]
Email Varchar[255]:N
FCOITrainingDate Datetime:N
FirstName Varchar[255]
InvestigatorID Int:I:U
LastName Varchar[255]
Indexes (1)
PhoneI...igator
InvestigatorID Int
PhoneNumberID
Indexes (1)

```
-- CREATETABLES.sql

CREATE TABLE Signature (
    SignatureID int IDENTITY(1,1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    Date datetime NOT NULL
);


CREATE TABLE Approval (
    ApprovalID int IDENTITY(1,1) PRIMARY KEY,
    ProtocolNumber varchar(255),
    IsSubmitted bit NOT NULL,
    DateOfApproval datetime
);

CREATE TABLE Investigator (
    InvestigatorID int IDENTITY(1,1) PRIMARY KEY,
    FirstName varchar(255) NOT NULL,
    LastName varchar(255) NOT NULL,
    CollegeProgram varchar(255) NOT NULL,
    Department varchar(255) NOT NULL,
    Email varchar(255),
    FCOITrainingDate datetime
);

CREATE TABLE PhoneNumber (
    PhoneNumberID int IDENTITY(1,1) PRIMARY KEY,
    AreaCode int NOT NULL,
    Number int NOT NULL,
    PhoneType varchar(255) NOT NULL
);

CREATE TABLE Address (
    AddressID int IDENTITY(1,1) PRIMARY KEY,
    Line1 varchar(255) NOT NULL,
    Line2 varchar(255),
    City varchar(255) NOT NULL,
    State char(2) NOT NULL,
    ZIP int NOT NULL
);

CREATE TABLE Sponsor (
    SponsorID int IDENTITY(1,1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    ContactName varchar(255) NOT NULL,
    AddressID int FOREIGN KEY REFERENCES Address(AddressID),
    Email varchar(255)
);
```

```
CREATE TABLE PhoneSponsor(
    SponsorID int FOREIGN KEY REFERENCES Sponsor(SponsorID),
    PhoneNumberID int FOREIGN KEY REFERENCES
PhoneNumber(PhoneNumberID),
    PRIMARY KEY (SponsorID, PhoneNumberID)
);

CREATE TABLE PhoneInvestigator(
    InvestigatorID int FOREIGN KEY REFERENCES
Investigator(InvestigatorID),
    PhoneNumberID int FOREIGN KEY REFERENCES
PhoneNumber(PhoneNumberID),
    PRIMARY KEY (InvestigatorID, PhoneNumberID)
);

CREATE TABLE ProposalType (
    ProposalTypeID int IDENTITY(1,1) PRIMARY KEY,
    Description varchar(255) NOT NULL
);


CREATE TABLE Source (
    SourceID int IDENTITY(1,1) PRIMARY KEY,
    Type varchar(255) NOT NULL,
    CurrentPeriod int NOT NULL,
    TotalPeriod int NOT NULL
);

CREATE TABLE CostSharingSummary (
    CostSharingSummaryID int IDENTITY(1,1) PRIMARY KEY,
    Source1ID int FOREIGN KEY REFERENCES Source(SourceID),
    Source2ID int FOREIGN KEY REFERENCES Source(SourceID),
    Source3ID int FOREIGN KEY REFERENCES Source(SourceID),
    Source4ID int FOREIGN KEY REFERENCES Source(SourceID)
);

CREATE TABLE BudgetPeriod (
    BudgetPeriodID int IDENTITY(1,1) PRIMARY KEY,
    BeginDate datetime NOT NULL,
    EndDate datetime NOT NULL,
    SalariesWagesFringes money NOT NULL DEFAULT 0,
    OtherDirectCosts money NOT NULL DEFAULT 0,
    FnACosts money NOT NULL DEFAULT 0
);

CREATE TABLE Budget (
    BudgetID int IDENTITY(1,1) PRIMARY KEY,
    BudgetCurrentPeriodID int NOT NULL FOREIGN KEY REFERENCES
BudgetPeriod(BudgetPeriodID),
```

```
-- CREATETABLES.sql

CREATE TABLE Signature (
    SignatureID int IDENTITY(1,1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    Date datetime NOT NULL
);


CREATE TABLE Approval (
    ApprovalID int IDENTITY(1,1) PRIMARY KEY,
    ProtocolNumber varchar(255),
    IsSubmitted bit NOT NULL,
    DateOfApproval datetime
);

CREATE TABLE Investigator (
    InvestigatorID int IDENTITY(1,1) PRIMARY KEY,
    FirstName varchar(255) NOT NULL,
    LastName varchar(255) NOT NULL,
    CollegeProgram varchar(255) NOT NULL,
    Department varchar(255) NOT NULL,
    Email varchar(255),
    FCOITrainingDate datetime
);

CREATE TABLE PhoneNumber (
    PhoneNumberID int IDENTITY(1,1) PRIMARY KEY,
    AreaCode int NOT NULL,
    Number int NOT NULL,
    PhoneType varchar(255) NOT NULL
);

CREATE TABLE Address (
    AddressID int IDENTITY(1,1) PRIMARY KEY,
    Line1 varchar(255) NOT NULL,
    Line2 varchar(255),
    City varchar(255) NOT NULL,
    State char(2) NOT NULL,
    ZIP int NOT NULL
);

CREATE TABLE Sponsor (
    SponsorID int IDENTITY(1,1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    ContactName varchar(255) NOT NULL,
    AddressID int FOREIGN KEY REFERENCES Address(AddressID),
    Email varchar(255)
);
```

```
    BudgetTotalProjPeriodID int NOT NULL FOREIGN KEY REFERENCES
BudgetPeriod(BudgetPeriodID),
    CostSharingSummaryID int NOT NULL FOREIGN KEY REFERENCES
CostSharingSummary(CostSharingSummaryID)
);


CREATE TABLE Proposal (
    ProposalID int IDENTITY(1,1) PRIMARY KEY,
    Title varchar(255),
    ActivityType varchar(255),
    ProposalTypeID int NOT NULL FOREIGN KEY REFERENCES
ProposalType(ProposalTypeID),
    SponsorID int NOT NULL FOREIGN KEY REFERENCES Sponsor(SponsorID),
    PrimeSponsorID int FOREIGN KEY REFERENCES Sponsor(SponsorID),
    CFDANumber varchar(255),
    SubmissionMethod varchar(255),
    DueDate datetime,
    IRBAApprovalID int FOREIGN KEY REFERENCES Approval(ApprovalID),
    IACUCApprovalID int FOREIGN KEY REFERENCES Approval(ApprovalID),
    IsIntellectualProperty bit NOT NULL,
    IsITAR bit NOT NULL,
    IBCApprovalID int FOREIGN KEY REFERENCES Approval(ApprovalID),
    IsStemCell bit NOT NULL,
    IsStemCellApproved bit NOT NULL,
    IsOutsideStates bit NOT NULL,
    IsNSFAandStudents bit NOT NULL,
    IsNSFAandStudentsWillAbide bit NOT NULL,
    IsAgreedtoGuidelines bit NOT NULL,
    SubawardeeSponsorID int FOREIGN KEY REFERENCES Sponsor(SponsorID),
    IsFinancialConflictOfInterest bit NOT NULL,
    PISignatureID int FOREIGN KEY REFERENCES Signature(SignatureID),
    PIChairSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    PIDeanSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    COPISignatureID int FOREIGN KEY REFERENCES Signature(SignatureID),
    COPIChairSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    COPIDeanSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    OfficeSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    ProvostSignatureID int FOREIGN KEY REFERENCES
Signature(SignatureID),
    BudgetID int NOT NULL FOREIGN KEY REFERENCES Budget(BudgetID)
);

CREATE TABLE Award (
    AwardID int IDENTITY(1,1) PRIMARY KEY,
```

```
    Title varchar(255),
    ActivityType varchar(255),
    ProposalTypeID int NOT NULL FOREIGN KEY REFERENCES
ProposalType(ProposalTypeID),
    PreviousAwardID int FOREIGN KEY REFERENCES Award(AwardID),
    SponsorID int NOT NULL FOREIGN KEY REFERENCES Sponsor(SponsorID),
    PrimeSponsorID int FOREIGN KEY REFERENCES Sponsor(SponsorID),
    CFDANumber varchar(255),
    SubmissionMethod varchar(255),
    BudgetID int NOT NULL FOREIGN KEY REFERENCES Budget(BudgetID),
    OriginalProposalID int FOREIGN KEY REFERENCES Proposal(ProposalID)
);

ALTER TABLE Proposal
ADD PreviousAwardID int FOREIGN KEY REFERENCES Award(AwardID);


CREATE TABLE InvestigatorProposal (
    InvestigatorID int FOREIGN KEY REFERENCES
Investigator(InvestigatorID),
    ProposalID int FOREIGN KEY REFERENCES Proposal(ProposalID),
    IsPrincipalInvestigator bit NOT NULL,
    FAndAPercentage int NOT NULL,
    PRIMARY KEY (InvestigatorId, ProposalID)
);


CREATE TABLE InvestigatorAward (
    InvestigatorID int FOREIGN KEY REFERENCES
Investigator(InvestigatorID),
    AwardID int FOREIGN KEY REFERENCES Award(AwardID),
    IsPrincipalInvestigator bit NOT NULL,
    FAndAPercentage int NOT NULL,
    PRIMARY KEY (InvestigatorId, AwardID)
);
```

```
—InsertData.sql
--Remove Previous Data and Reset Auto Indexes


DELETE FROM InvestigatorAward;
DELETE FROM InvestigatorProposal;
DELETE FROM AWARD;
DELETE FROM Proposal;
DELETE FROM Signature;
DELETE FROM Approval;
DELETE FROM Budget;
DELETE FROM BudgetPeriod;
DELETE FROM CostSharingSummary;
DELETE FROM Source;
DELETE FROM PhoneInvestigator;
DELETE FROM PhoneSponsor;
DELETE FROM Sponsor;
DELETE FROM Address;
DELETE FROM PhoneNumber;
DELETE FROM Investigator;
DELETE FROM ProposalType;
DBCC CHECKIDENT ('ProposalType', RESEED, 0);
DBCC CHECKIDENT ('Investigator', RESEED, 0);
DBCC CHECKIDENT ('PhoneNumber', RESEED, 0);
DBCC CHECKIDENT ('Address', RESEED, 0);
DBCC CHECKIDENT ('Sponsor', RESEED, 0);
DBCC CHECKIDENT ('Source', RESEED, 0);
DBCC CHECKIDENT ('CostSharingSummary', RESEED, 0);
DBCC CHECKIDENT ('BudgetPeriod', RESEED, 0);
DBCC CHECKIDENT ('Budget', RESEED, 0);
DBCC CHECKIDENT ('Approval', RESEED, 0);
DBCC CHECKIDENT ('Signature', RESEED, 0);
DBCC CHECKIDENT ('Proposal', RESEED, 0);
DBCC CHECKIDENT ('Award', RESEED, 0);


--PROPOSAL TYPES
--(STATIC DATA)
INSERT INTO ProposalType(Description)
VALUES
('New Proposal'),
('Pre-Proposal'),
('Renewal'),
('Supplement');


--Create base investigators
INSERT INTO Investigator(FirstName, LastName, CollegeProgram,
Department, Email, FCOITrainingDate)
VALUES
```

```
('Mike', 'James', 'Honors', 'Honors', 'james@harding.edu', 2/21/2006),
('Dana', 'Steil', 'Science', 'Computer Science', 'dsteil@harding.edu',
5/10/2015),
('Frank', 'McCown', 'Science', 'Computer Science',
'fmccown@harding.edu', 2/12/2014),
('Ginger', 'Blackstone', 'Arts and Humanities', 'Communication',
'gblackstone@harding.edu', 12/4/2016),
('Brandon', 'Emlaw', 'Science', 'Computer Science',
'bemlaw@harding.edu', 1/10/2017),
('Lance', 'Benson', 'Science', 'Chemistry', 'lbenson@harding.edu',
4/5/2016),
('George', 'Washington', 'Arts and Humanities', 'History',
'mrpresident@harding.edu', 5/5/2016),
('Doc', 'Brown', 'Science', 'Engineering', 'outtatime@harding.edu',
10/20/2015),
('Steve', 'Frye', 'Arts and humanities', 'Theatre',
'sfrye@harding.edu', 5/7/2016),
('Steve', 'Baber', 'Science', 'Computer Science',
'sbaber@harding.edu', 5/10/2016),
('Gabriel', 'Foust', 'Science', 'Computer Science',
'gfoust@harding.edu', 2/1/2015),
('Tim', 'Baird', 'Science', 'Computer Science', 'tbaird@harding.edu',
1/1/2016);

INSERT INTO PhoneNumber(AreaCode, Number, PhoneType)
VALUES
(237, 5234808, 'Cell'),
(740, 6680290, 'Cell'),
(967, 7187623, 'Office'),
(378, 6109126, 'Cell'),
(753, 8366481, 'Cell'),
(239, 6785835, 'Cell'),
(209, 0042878, 'Cell'),
(240, 5106770, 'Office'),
(905, 8448598, 'Office'),
(682, 4251936, 'Cell'),
(389, 0206173, 'Cell'),
(758, 1401566, 'Cell'),
(759, 6846577, 'Cell'),
(396, 0712758, 'Office'),
(140, 6906237, 'Cell'),
(199, 6556863, 'Office'),
(478, 9926672, 'Cell'),
(115, 1995739, 'Office'),
(143, 4868231, 'Office'),
(752, 1643194, 'Cell'),
(580, 7637790, 'Office'),
(947, 7240439, 'Office'),
(623, 9240747, 'Office'),
(943, 8994661, 'Office'),
```

```
(109, 1984169, 'Cell'),
(960, 1256616, 'Cell'),
(123, 3386225, 'Cell'),
(555, 0022111, 'Office'),
(823, 3544544, 'Cell'),
(213, 3667569, 'Office'),
(110, 5074958, 'Cell'),
(877, 1461514, 'Office'),
(890, 0016866, 'Office'),
(369, 6546746, 'Cell'),
(540, 4588294, 'Cell'),
(578, 1687200, 'Office'),
(120, 5601385, 'Office'),
(450, 2041408, 'Cell'),
(441, 9657089, 'Office'),
(192, 8259013, 'Office'),
(619, 0067916, 'Office'),
(955, 3558197, 'Cell'),
(588, 6313712, 'Office'),
(828, 6933345, 'Cell'),
(619, 5986203, 'Office'),
(906, 4707484, 'Office'),
(172, 4291469, 'Office'),
(264, 8849738, 'Cell');


 --Addresses
 INSERT INTO Address(Line1, Line2, City, State, ZIP)
 VALUES
 ('900 E Market Ave', '', 'Searcy', 'AR', 72143), --Legacy Park
Research
 ('1 NASA Road', '', 'Houston', 'TX', 10203),
 ('Research Center', '202 Science St', 'Washington', 'DC', 11203),
 ('Communication Center', '203 Baker St', 'Washington', 'DC', 11203),
 ('500 Alabama Way', '', 'Birmingham', 'AL', 33404);

 --Sponsors
 INSERT INTO Sponsor(Name, ContactName, AddressID, Email)
 VALUES
 ('Legacy Park Research', 'Alex Hamilton', 1,
'ahamilton@example.com'),
 ('NASA', 'Mike Morgan', 2, 'nasa@example.com'),
 ('National Research Center', 'John Jacobs', 3,
'rcenter@example.gov'),
 ('National Communication Center', 'Kyle Andrews', 4,
'ccenter@example.gov'),
 ('University of Alabama', 'Tim Hals', 5, 'research@alabama.edu');


 --SponsorPhoneNumbers
```

```
 INSERT INTO PhoneSponsor(SponsorID, PhoneNumberID)
 VALUES
 (1, 1),
 (2, 2),
 (3, 3),
 (4, 4),
 (5, 5);

 INSERT INTO PhoneSponsor(SponsorID, PhoneNumberID)
 VALUES
 (1, 6),
 (1, 7),
 (1, 9),
 (5, 8);

--Investigator Phone Numbers
INSERT INTO PhoneInvestigator(InvestigatorID, PhoneNumberID)
VALUES
(1, 10),
(2, 11),
(3, 12),
(4, 13),
(5, 14),
(6, 15),
(7, 16),
(8, 17),
(9, 18),
(10, 19),
(11, 20),
(12, 21),
(1, 22),
(2, 23),
(10, 24);

INSERT INTO Source(Type, CurrentPeriod, TotalPeriod)
VALUES
('InKind', 1000, 1000),
('InKind', 2000, 4000),
('InKind', 1000, 2000),
('Cash', 100, 100),
('Equipment', 500, 1000),
('Service', 2000, 2000);


INSERT INTO CostSharingSummary(Source1ID, Source2ID, Source3ID,
Source4ID)
VALUES
(NULL, NULL, NULL, NULL),
(1, 4, NULL, NULL),
(2, NULL, NULL, NULL),
```

```
(3, 5, 6, NULL);

INSERT INTO BudgetPeriod(BeginDate, EndDate, SalariesWagesFringes,
OtherDirectCosts, FnACosts)
VALUES
('8/1/2016', '8/1/2018', 5000, 1000, 3000), --1
('8/1/2016', '8/1/2017', 2500, 500, 1500),  --2

('8/1/2015', '8/1/2020', 5000, 5000, 10000), --3
('8/1/2016', '8/1/2017', 1000, 1000, 2000), --4

('1/1/2017', '1/1/2018', 1000, 500, 0), --5

('8/1/2016', '8/1/2017', 4000, 100, 1000), --6
('8/1/2016', '8/1/2018', 8000, 200, 2000), --7

('8/1/2017', '8/1/2018', 2000, 100, 100), --8
('8/1/2017', '8/1/2019', 4000, 200, 200); --9

INSERT INTO Budget(BudgetTotalProjPeriodID, BudgetCurrentPeriodID,
CostSharingSummaryID)
VALUES
(1, 2, 1),
(3, 4, 1),
(5, 5, 1),
(1, 1, 1),
(6, 7, 2),
(8, 9, 3),
(1, 2, 4),
(1, 2, 1),
(5, 5, 4);

INSERT INTO Approval(ProtocolNumber, IsSubmitted, DateOfApproval)
VALUES
('A100', 1, '1/1/2016'),
('C200', 1, '1/1/2014'),
('A205', 1, NULL),
('A206', 1, NULL),
('C405', 1, NULL),
('A500', 0, NULL),
('D101', 0, NULL);

INSERT INTO Signature(Name, Date)
VALUES
('Bruce Mclarty', '1/1/2015'),
('Tim Baird', '1/1/2016'),
('Mike James', '1/7/2016'),
('Dana Steil', '11/4/2015'),
('Frank McCown', '11/1/2014'),
('Steve Baber', '2/25/2017'),
```

```
('Gabriel Foust', '2/4/2016'),
('Investigator Name', '1/2/2017'),
('Program Operator', '1/1/2017');

INSERT INTO Proposal(Title, ActivityType, BudgetID, ProposalTypeID,
PreviousAwardID, SponsorID, PrimeSponsorID, CFDANumber,
SubmissionMethod, DueDate, IRBAApprovalID, IACUCApprovalID,
IBCApprovalID, IsIntellectualProperty, IsITAR, IsStemCell,
IsStemCellApproved, IsOutsideStates, IsNSFAndStudents,
IsNSFAndstudentsWillAbide, IsAgreedToGuidelines,
IsFinancialConflictOfInterest,
PISignatureID, PIChairSignatureID, PIDeanSignatureID, COPISignatureID,
COPIChairSignatureID, COPIDeanSignatureID, OfficeSignatureID,
ProvostSignatureID)
VALUES

--Title, ActivityType, BudgetID, ProposalTypeID,
('State Police', 'Other', 1, 1,
--PreviousAwardID, SponsorID, PrimeSponsorID,
 NULL, 5, NULL,
--CFDANumber, SubmissionMethod, DueDate
 '1001', 'Paper', '2/2/2016',
--ApprovalIDS:
NULL, NULL, 2,
--ApprovalBits:
0, 0, 0, 0, 0, 0, 0, 0, 0,
--SIGNATURES:
4, 2, 1, 1, 1, 1, 9, 1),

--Title, ActivityType, BudgetID, ProposalTypeID,
('History Research Program', 'Research', 2, 2,
--PreviousAwardID, SponsorID, PrimeSponsorID,
 NULL, 2, NULL,
--CFDANumber, SubmissionMethod, DueDate
 '200', 'Online', '2/7/2015',
--ApprovalIDS:
1, 3, NULL,
--ApprovalBits:
0, 0, 0, 0, 0, 0, 0, 0, 0,
--SIGNATURES:
2, 2, 1, 1, 1, 1, 9, 1),

--Title, ActivityType, BudgetID, ProposalTypeID,
('NASA Study of Science', 'Research', 3, 1,
--PreviousAwardID, SponsorID, PrimeSponsorID,
 NULL, 2, 3,
--CFDANumber, SubmissionMethod, DueDate
 '200', 'Online', '4/5/2018',
--ApprovalIDS:
7, 4, 6,
```

```
--ApprovalBits:
0, 1, 0, 1, 0, 0, 0, 0, 0,
--SIGNATURES:
1, 2, 1, 1, 1, 1, 9, 1),

--Title, ActivityType, BudgetID, ProposalTypeID,
('TV Station Upgrade', 'Equipment', 4, 3,
--PreviousAwardID, SponsorID, PrimeSponsorID,
 NULL, 4, NULL,
--CFDANumber, SubmissionMethod, DueDate
 '200', 'Online', '2/10/2016',
--ApprovalIDS:
1, 3, NULL,
--ApprovalBits:
0, 0, 0, 0, 0, 0, 0, 0, 0,
--SIGNATURES:
4, 2, 1, 1, 1, 1, 9, 1);



INSERT INTO InvestigatorProposal(InvestigatorID, ProposalID,
IsPrincipalInvestigator, FAndAPercentage)
VALUES
(2, 1, 1, 48),
(3, 1, 0, 48),
(7, 2, 1, 48),
(6, 3, 1, 48),
(4, 4, 1, 48),
(1, 4, 0, 48);


--COPY AWARDS BY ID
INSERT INTO Award(Title, ActivityType, ProposalTypeID,
PreviousAwardID, SponsorID, PrimeSponsorID, CFDANumber,
SubmissionMethod, OriginalProposalID, BudgetID)
SELECT Title, ActivityType, ProposalTypeId, PreviousAwardID,
SponsorID, PrimeSponsorID, CFDANumber, SubmissionMethod, ProposalID,
BudgetID
FROM Proposal
WHERE ProposalID = 1 OR ProposalID = 3 OR ProposalID =4;

--COPY INVESTIGATOR AWARDS BY ID
INSERT INTO InvestigatorAward(InvestigatorID, AwardID,
IsPrincipalInvestigator, FAndAPercentage)
SELECT ip.InvestigatorID, a.AwardID, ip.IsPrincipalInvestigator,
ip.FAndAPercentage
FROM InvestigatorProposal ip
JOIN Award a ON a.OriginalProposalID = ip.ProposalID;
```

```
select i.FirstName, i.LastName, i.CollegeProgram, i.Department,
i.Email, pn.AreaCode, count(p.ProposalID) as Proposals,
count(a.AwardID) as awards, pn.Number
from Investigator i
join PhoneInvestigator pi on pi.InvestigatorID = i.InvestigatorID
join PhoneNumber pn on pi.PhoneNumberID = pn.PhoneNumberID
join InvestigatorProposal ip on i.InvestigatorID = ip.InvestigatorID
join Proposal p on p.ProposalID = ip.ProposalID
join InvestigatorAward ia on ia.InvestigatorID = i.InvestigatorID
join Award a on a.AwardID = ia.AwardID
group by i.FirstName, i.LastName, i.CollegeProgram, i.Department,
i.Email, pn.AreaCode, pn.Number
```

Investigators with Proposals and Awards

Name	Email	College Program	Department	Phone Number	Proposals	Awards
Dana Steil	dsteil@harding.edu	Science	Computer Science	(389)206173	1	1
Dana Steil	dsteil@harding.edu	Science	Computer Science	(623)9240747	1	1
Frank McCown	fmccown@harding.edu	Science	Computer Science	(758)1401566	1	1
Ginger Blackstone	gblackstone@harding.edu	Arts and Humanities	Communication	(759)6846577	1	1
Lance Benson	lbenson@harding.edu	Science	Chemistry	(140)6906237	1	1
Mike James	james@harding.edu	Honors	Honors	(682)4251936	1	1
Mike James	james@harding.edu	Honors	Honors	(947)7240439	1	1

```
Select s.name, pn.AreaCode, pn.Number, s.Email, a.Line1, a.Line2,
a.City, a.State, a.ZIP
from Sponsor s
join PhoneSponsor ps on ps.SponsorID = s.SponsorID
join PhoneNumber pn on ps.PhoneNumberID = pn.PhoneNumberID
join Address a on s.AddressID = a.AddressID
```

Sponsors

Name	Email	Phone Number	Address	City	State	ZIP
Legacy Park Research	ahamilton@example.com	(237)5234808	900 E Market Ave	Searcy	AR	72143
Legacy Park Research	ahamilton@example.com	(239)6785835	900 E Market Ave	Searcy	AR	72143
Legacy Park Research	ahamilton@example.com	(29)42878	900 E Market Ave	Searcy	AR	72143
Legacy Park Research	ahamilton@example.com	(905)8448598	900 E Market Ave	Searcy	AR	72143
NASA	nasa@example.com	(740)6680290	1 NASA Road	Houston	TX	10203
National Research Center	rcenter@example.gov	(967)7187623	Research Center 202 Science St	Washington	DC	11203
National Communication Center	ccenter@example.gov	(378)6109126	Communication Center 203 Baker St	Washington	DC	11203
University of Alabama	research@alabama.edu	(753)8366481	500 Alabama Way	Birmingham	AL	33404
University of Alabama	research@alabama.edu	(240)5106770	500 Alabama Way	Birmingham	AL	33404

```
SELECT b.BudgetID, cp.BeginDate AS PeriodBegin, cp.EndDate AS
PeriodEnd, tp.BeginDate AS TotalBegin, tp.EndDate AS TotalEnd,
cp.OtherDirectCosts + cp.FnACosts + cp.SalariesWagesFringes AS
PeriodCost,
tp.OtherDirectCosts + tp.FnACosts + tp.SalariesWagesFringes AS
TotalCost, p.Title
 FROM Budget b
JOIN BudgetPeriod cp ON cp.BudgetPeriodID = b.BudgetCurrentPeriodID
JOIN BudgetPeriod tp ON tp.BudgetPeriodID = b.BudgetTotalProjPeriodID
join Proposal p on p.BudgetID = b.BudgetID
```

Budget List

Proposal Title	Period Begin	Period End	Period Cost	Total Cost	Total Begin	Total End
State Police	8/1/2016 12:00:00 AM	8/1/2017 12:00:00 AM	4500.0000	9000.0000	8/1/2016 12:00:00 AM	8/1/2018 12:00:00 AM
History Research Program	8/1/2016 12:00:00 AM	8/1/2017 12:00:00 AM	4000.0000	20000.0000	8/1/2015 12:00:00 AM	8/1/2020 12:00:00 AM
NASA Study of Science	1/1/2017 12:00:00 AM	1/1/2018 12:00:00 AM	1500.0000	1500.0000	1/1/2017 12:00:00 AM	1/1/2018 12:00:00 AM
TV Station Upgrade	8/1/2016 12:00:00 AM	8/1/2018 12:00:00 AM	9000.0000	9000.0000	8/1/2016 12:00:00 AM	8/1/2018 12:00:00 AM

```
select p.Title, pt.Description, p.ActivityType, p.DueDate
from Proposal p
join ProposalType pt on p.ProposalTypeID = pt.ProposalTypeID
```

Proposals

Title	Description	Activity Type	Due Date
State Police	New Proposal	Other	2/2/2016 12:00:00 AM
History Research Program	Pre-Proposal	Research	2/7/2015 12:00:00 AM
NASA Study of Science	New Proposal	Research	4/5/2018 12:00:00 AM
TV Station Upgrade	Renewal	Equipment	2/10/2016 12:00:00 AM

```
Select a.Title as AwardName, a.ActivityType, pt.Description, s.Name as
SponsorName, p.Title as OriginalProposal
from Award a
join ProposalType pt on pt.ProposalTypeID = a.ProposalTypeID
join Sponsor s on s.SponsorID = a.SponsorID
join Proposal p on a.OriginalProposalID = p.ProposalID
```

Awards

Award Name	Activity Type	Description	Sponsor Name	Original Proposal
State Police	Other	New Proposal	University of Alabama	State Police
NASA Study of Science	Research	New Proposal	NASA	NASA Study of Science
TV Station Upgrade	Equipment	Renewal	National Communicatio n Center	TV Station Upgrade