/\*Trg\_ProjectAudit: One for Project to handle

Addition, Update and Deletion from the main project table

(the table that contains the most fields). Audit Table name should ProjectAudit.

\*/

CREATE TABLE ProjectAudit

(

projectID char (4),

projectName varchar(40),

firmFedID char(8),

fundedbudget Decimal (16,2),

startDate DATE,

status VARCHAR(25) check (status = 'Active' OR status = 'Inactive'

OR status = 'Cancelled' OR status = 'On-Hold' OR status = 'Completed' ),

projectedEndDate DATE,

projectManager char(30),

Operation char(25),

DateofOperation date,

UserPerformed char(50)

)

go

CREATE TRIGGER trg\_ProjectAudit

ON project

after Insert,Delete,Update

AS

BEGIN

IF EXISTS(SELECT projectName, firmFedID, fundedbudget, startDate,status, projectedEndDate, projectManager from inserted)

BEGIN

INSERT INTO ProjectAudit

(projectID, projectName, firmFedID, fundedbudget, startDate,status,projectedEndDate, projectManager, operation, DateofOperation, UserPerformed)

SELECT projectID, projectName, firmFedID, fundedbudget, startDate,status, projectedEndDate, projectManager, 'ADDED', getDate(), CURRENT\_USER FROM inserted

END

IF EXISTS(SELECT projectName, firmFedID, fundedbudget, startDate,status, projectedEndDate, projectManager from deleted)

BEGIN

INSERT INTO ProjectAudit

(projectId, projectName, firmFedID, fundedbudget, startDate,status, projectedEndDate, projectManager, operation, DateofOperation, UserPerformed)

SELECT projectID, projectName, firmFedID, fundedbudget, startDate,status, projectedEndDate, projectManager, 'DELETED', getDate(), CURRENT\_USER FROM deleted

END

END

GO

/\* select \* from ProjectAudit \*/

--Next ACTIVITY AUDIT

CREATE TABLE ActivityAudit

(activityId char(4),

activityName varchar(50),

projectId char(4),

costToDate decimal(16,2),

startDate date,

endDate date,

status varchar(25) check (status = 'Active' OR status = 'Inactive'

OR status = 'Cancelled' OR status = 'On-Hold' OR status = 'Completed' ),

Operation char(25),

DateofOperation date,

UserPerformed char(50)

)

GO

CREATE TRIGGER trg\_ActivityAudit

ON Activity

AFTER Insert,Delete,Update

AS

BEGIN

IF EXISTS(SELECT activityId, activityName, projectId, costToDate, startDate, endDate, status FROM inserted)

BEGIN

INSERT INTO ActivityAudit

(activityId, activityName, projectId, costToDate, startDate, endDate, status, operation, DateofOperation, UserPerformed)

SELECT activityId, activityName, projectId, costToDate, startDate, endDate, status, 'ADDED', getDate(), CURRENT\_USER FROM inserted

END

IF EXISTS(SELECT activityId, activityName, projectId, costToDate, startDate, endDate, status FROM deleted)

BEGIN

INSERT INTO ActivityAudit

(activityId, activityName, projectId, costToDate, startDate, endDate, status, operation, DateofOperation, UserPerformed)

SELECT activityId, activityName, projectId, costToDate, startDate, endDate, status, 'DELETED', getDate(), CURRENT\_USER FROM deleted

END

END

/\* select \* from ActivityAudit \*/

GO

--Employee Audit

CREATE TABLE EmployeeAudit

(

empNumber char(8),

firstName varchar(25),

lastName varchar(25),

ssn char(9),

address varchar(50),

state char(2),

zip char(5),

job varchar(50) check (job = 'CastMember' OR job = 'Engineer' OR

job = 'Inspector' or job = 'ProjectManager'),

Operation char(25),

DateofOperation date,

UserPerformed char(50)

)

GO

CREATE TRIGGER trg\_EmployeeAudit

ON Employee

AFTER Insert,Delete,Update

AS

BEGIN

IF EXISTS(SELECT empNumber, firstName, lastName, ssn, address, state, zip, job FROM inserted)

BEGIN

INSERT INTO EmployeeAudit

(empNumber, firstName, lastName, ssn, address, state, zip, job, operation, DateofOperation, UserPerformed)

SELECT empNumber, firstName, lastName, ssn, address, state, zip, job, 'ADDED', getDate(), CURRENT\_USER FROM inserted

END

IF EXISTS(SELECT empNumber, firstName, lastName, ssn, address, state, zip, job FROM deleted)

BEGIN

INSERT INTO EmployeeAudit

(empNumber, firstName, lastName, ssn, address, state, zip, job, operation, DateofOperation, UserPerformed)

SELECT empNumber, firstName, lastName, ssn, address, state, zip, job, 'DELETED', getDate(), CURRENT\_USER FROM deleted

END

END

GO

/\* select \* from employeeAudit \*/