CREATE TABLE Project

(projectId char(4) PRIMARY KEY,

projectName varchar(100),

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)

)

CREATE TABLE ProjectType

(

projectID char(4) primary key,

projectTypeCode char(5)

check (projectTypeCode = 'FAC' OR projectTypeCode = 'RIDE' OR

projectTypeCode = 'RET' or projectTypeCode = 'FOOD') ,

projectTypeDesc CHAR (50) check (projectTypeDesc = 'Retail' OR projectTypeDesc = 'Ride' OR projectTypeDesc = 'Facility' OR projectTypeDesc = 'Restaurant')

)

CREATE TABLE Firm

(firmFedID char(9) PRIMARY KEY,

firmName varchar(50),

firmAddress varchar(50)

)

CREATE TABLE Activity(

activityId char(4) PRIMARY KEY,

activityName varchar(50),

projectId char(4) foreign key (ProjectId) references Project (projectId) ,

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' ),

)

CREATE TABLE ActivityType(

activityID char(4) primary key,

activityTypeCode char(2) check (activityTypeCode = 'DE' OR activityTypeCode = 'CO'

OR activityTypeCode = 'WA'),

activityTypeDesc varchar(50) check (activityTypeDesc = 'DESIGN' OR activityTypeDesc = 'CONSTRUCTION'

OR activityTypeDesc = 'WARRANTY')

)

CREATE TABLE Employee(

empNumber char(8) primary key,

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')

)

GO

CREATE FUNCTION fn\_Check\_Manager (

@projectManager INT

)

RETURNS VARCHAR(10)

AS

BEGIN

IF EXISTS (SELECT \* FROM Employee WHERE empNumber = @projectManager AND job = 'ProjectManager')

return 'True'

return 'False'

END

GO

ALTER TABLE Project

WITH CHECK ADD CONSTRAINT CK\_Manager

CHECK (dbo.fn\_Check\_Manager(projectManager) = 'True')

/\* if u want to drop all tables

DROP table Activity

DROP TABLE ActivityType

DROP TABLE Employee

DROP TABLE firm

DROP TABLE PROJECT

DROP TABLE ProjectType \*/