CREATE TABLE DEPARTMENT(

DepartmentID int NOT NULL IDENTITY(500,1),

DepartmentName varchar(50) NOT NULL,

DepartmentNumber int NOT NULL,

DepartmentEmployee varchar(50) NULL,

DepartmentEmployeeStartDate date NULL,

CONSTRAINT DepartmentPK PRIMARY KEY(DepartmentID),

CONSTRAINT DepartmentAK1 UNIQUE(DepartmentNumber),

);

CREATE TABLE PROJECT(

ProjectID int NOT NULL IDENTITY(50,1),

ProjectName varchar(50) NOT NULL,

ProjectNumber int NOT NULL,

ProjectLocation varchar(50) NOT NULL,

DepartmentID int NOT NULL,

CONSTRAINT ProjectPK PRIMARY KEY(ProjectID),

CONSTRAINT ProjectAK1 UNIQUE(ProjectNumber),

CONSTRAINT DepartmentFK FOREIGN KEY(DepartmentID)

REFERENCES DEPARTMENT(DepartmentID)

ON UPDATE NO ACTION

ON DELETE NO ACTION

);

CREATE TABLE EMPLOYEE(

EmployeeID int NOT NULL IDENTITY(100,1),

EmployeeName varchar(50) NOT NULL,

EmployeeSSN int NOT NULL,

EmployeeAddress varchar(255) NULL,

EmployeeSalary int NULL,

EmployeeSex varchar(25) NULL,

EmployeeDOB date NULL,

EmployeeSupervisor varchar(50) NOT NULL,

DepartmentID int NOT NULL,

CONSTRAINT EmployeePK PRIMARY KEY(EmployeeID),

CONSTRAINT EmployeeAK1 UNIQUE(EmployeeSSN),

CONSTRAINT DepartmentFK FOREIGN KEY(DepartmentID)

REFERENCES DEPARTMENT(DepartmentID)

ON UPDATE NO ACTION

ON DELETE NO ACTION,

);

CREATE TABLE EMPLOYEE\_HOURS\_PER\_WEEK(

EmployeeID int NOT NULL,

ProjectID int NOT NULL,

PayDate date NOT NULL,

HoursPerWeek int NOT NULL,

CONSTRAINT EmployeeHoursPK PRIMARY KEY(EmployeeID, ProjectID, PayDate),

CONSTRAINT EmployeeFK FOREIGN KEY(EmployeeID)

REFERENCES EMPLOYEE(EmployeeID)

ON UPDATE NO ACTION

ON DELETE CASCADE,

CONSTRAINT ProjectFK FOREIGN KEY(ProjectID)

REFERENCES PROJECT(ProjectID)

ON UPDATE NO ACTION

ON DELETE CASCADE,

);

CREATE TABLE EmployeeDependent(

DependentFirstName varchar(50) NOT NULL,

DependentSex varchar(25) NULL,

DependentDOB date NULL,

EmployeeID int NOT NULL,

CONSTRAINT EmployeeDependentPK PRIMARY KEY(DependentFirstName, EmployeeID),

CONSTRAINT EmployeeFK FOREIGN KEY(EmployeeID)

REFERENCES EMPLOYEE(EmployeeID)

ON UPDATE NO ACTION

ON DELETE CASCADE,

);

CREATE TABLE LOCATION(

DepartmentID int NOT NULL,

DepartmentLocation varchar(255) NOT NULL,

CONSTRAINT LocationPK PRIMARY KEY(DepartmentID, DepartmentLocation),

CONSTRAINT DepartmentFK FOREIGN KEY(DepartmentID)

REFERENCES DEPARTMENT(DepartmentID)

ON UPDATE NO ACTION

ON DELETE CASCADE,

);