CREATE TABLE Client

(

Name VARCHAR(30) NOT NULL,

ID VARCHAR(10) NOT NULL UNIQUE,

PRIMARY KEY (ID)

);

CREATE TABLE ISP

(

S\_ID VARCHAR(10) NOT NULL,

Serial\_No VARCHAR(30) NOT NULL,

P\_ID VARCHAR(30) NOT NULL,

PRIMARY KEY (S\_ID, Serial\_No, P\_ID),

FOREIGN KEY (S\_ID) REFERENCES Supplier(ID),

FOREIGN KEY (Serial\_No) REFERENCES Item(Serial\_No) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (P\_ID) REFERENCES Project(ID) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Item

(

Price FLOAT NOT NULL,

Serial\_No VARCHAR(30) NOT NULL UNIQUE,

Name VARCHAR(30) NOT NULL,

Type VARCHAR(10) NOT NULL,

Model VARCHAR(30) NOT NULL,

PRIMARY KEY (Serial\_NO),

FOREIGN KEY (Name, Type, Model) REFERENCES Item\_Type (Name, Type, Model) ON DELETE SET NULL ON UPDATE SET NULL

);

CREATE TABLE Item\_Type

(

Name VARCHAR(30) NOT NULL,

Model VARCHAR(30) NOT NULL,

Quantity INT NOT NULL,

Type VARCHAR(10) NOT NULL,

PRIMARY KEY (Name, Model, Type)

);

CREATE TABLE Phase\_Category

(

Code VARCHAR(10) NOT NULL UNIQUE,

Name VARCHAR(15) NOT NULL UNIQUE,

Description VARCHAR(200),

PRIMARY KEY (Code)

);

CREATE TABLE Phase\_Task

(

ID VARCHAR(15) NOT NULL,

Code VARCHAR(10) NOT NULL,

P\_ID VARCHAR(30) NOT NULL,

Progress\_Percentage FLOAT NOT NULL,

Completion\_Date VARCHAR(10) NOT NULL,

S\_ID VARCHAR(12) NOT NULL,

PRIMARY KEY (ID, Code, P\_ID),

FOREIGN KEY (ID) REFERENCES Task\_Category (ID) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (Code) REFERENCES Phase\_Category (Code) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (P\_ID) REFERENCES Project (ID) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (S\_ID) REFERENCES Specialist (S\_ID) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Phone\_Numbers

(

Phone VARCHAR(15) NOT NULL,

ID VARCHAR(12) NOT NULL,

PRIMARY KEY (Phone, ID),

FOREIGN KEY (ID) REFERENCES Staff (ID\_Num) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Project

(

ID VARCHAR(30) NOT NULL UNIQUE,

Name VARCHAR(30) NOT NULL,

Assignment\_date VARCHAR(10) NOT NULL,

C\_ID VARCHAR(10) NOT NULL,

S\_ID VARCHAR(12) NOT NULL,

PRIMARY KEY (ID),

FOREIGN KEY (C\_ID) REFERENCES Client (ID) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (S\_ID) REFERENCES Supervisor (S\_ID) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Specialist

(

S\_ID VARCHAR(12) NOT NULL UNIQUE,

PRIMARY KEY (S\_ID),

FOREIGN KEY (S\_ID) REFERENCES Staff (ID\_Num) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Staff

(

FName VARCHAR(12) NOT NULL,

LName VARCHAR(12) NOT NULL,

ID\_Num VARCHAR(12) NOT NULL UNIQUE,

Employment\_Date VARCHAR(10) NOT NULL,

Birth\_Date VARCHAR(10) NOT NULL,

Adress VARCHAR(200) NOT NULL,

PRIMARY KEY (ID\_Num),

[E-Mail] VARCHAR(20)

);

CREATE TABLE Supervisor

(

S\_ID VARCHAR(12) NOT NULL UNIQUE,

PRIMARY KEY (S\_ID),

FOREIGN KEY (S\_ID) REFERENCES Staff (ID\_Num) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Supplier

(

Name VARCHAR(30) NOT NULL,

ID VARCHAR(10) NOT NULL UNIQUE,

PRIMARY KEY (ID),

);

CREATE TABLE Supply

(

Price FLOAT NOT NULL,

Date VARCHAR(10) NOT NULL,

Number INT NOT NULL,

Model VARCHAR(30) NOT NULL,

Name VARCHAR(30) NOT NULL,

Type VARCHAR(10) NOT NULL,

ID VARCHAR(10) NOT NULL UNIQUE,

S\_ID VARCHAR(10) NOT NULL,

PRIMARY KEY (ID),

FOREIGN KEY (S\_ID) REFERENCES Supplier (ID) ON DELETE SET NULL ON UPDATE CASCADE

);

CREATE TABLE Task\_Category

(

Name VARCHAR(15) NOT NULL,

ID VARCHAR(15) NOT NULL UNIQUE,

PRIMARY KEY (ID),

);

CREATE TABLE Works\_On

(

[ID\_Num] VARCHAR(12) NOT NULL,

[P\_ID] VARCHAR(30) NOT NULL,

[Hours] INT NOT NULL,

PRIMARY KEY (ID\_Num, P\_ID),

FOREIGN KEY ([ID\_Num]) REFERENCES Staff ([ID\_Num]),

FOREIGN KEY ([P\_ID]) REFERENCES Project ([ID])

);

CREATE TABLE Degree

(

[ID\_Num] VARCHAR(12) NOT NULL,

[S\_Degree] VARCHAR(30) NOT NULL,

PRIMARY KEY ([ID\_Num], [S\_Degree]),

FOREIGN KEY ([ID\_Num]) REFERENCES Staff ([ID\_Num])

);