Ex1:

**CREATE** **TABLE** Warehouses (

Code INTEGER **NOT** **NULL**,

**Location** VARCHAR(255) **NOT** **NULL** ,

Capacity INTEGER **NOT** **NULL**,

**PRIMARY** **KEY** (Code)

);

**CREATE** **TABLE** Boxes (

Code VARCHAR(255) **NOT** **NULL**,

Contents VARCHAR(255) **NOT** **NULL** ,

Value REAL **NOT** **NULL** ,

Warehouse INTEGER **NOT** **NULL**,

**PRIMARY** **KEY** (Code),

**FOREIGN** **KEY** (Warehouse) **REFERENCES** Warehouses(Code)

);

**INSERT** **INTO** Warehouses(Code,**Location**,Capacity) **VALUES**(1,'Chicago',3);

**INSERT** **INTO** Warehouses(Code,**Location**,Capacity) **VALUES**(2,'Chicago',4);

**INSERT** **INTO** Warehouses(Code,**Location**,Capacity) **VALUES**(3,'New York',7);

**INSERT** **INTO** Warehouses(Code,**Location**,Capacity) **VALUES**(4,'Los Angeles',2);

**INSERT** **INTO** Warehouses(Code,**Location**,Capacity) **VALUES**(5,'San Francisco',8);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('0MN7','Rocks',180,3);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('4H8P','Rocks',250,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('4RT3','Scissors',190,4);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('7G3H','Rocks',200,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('8JN6','Papers',75,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('8Y6U','Papers',50,3);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('9J6F','Papers',175,2);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('LL08','Rocks',140,4);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('P0H6','Scissors',125,1);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('P2T6','Scissors',150,2);

**INSERT** **INTO** Boxes(Code,Contents,Value,Warehouse) **VALUES**('TU55','Papers',90,5);

EX2:

**CREATE** **TABLE** Pieces (

Code INTEGER **PRIMARY** **KEY** **NOT** **NULL**,

Name TEXT **NOT** **NULL**

);

**CREATE** **TABLE** Providers (

Code VARCHAR(40)

**PRIMARY** **KEY** **NOT** **NULL**,

Name TEXT **NOT** **NULL**

);

**CREATE** **TABLE** Provides (

Piece INTEGER,

**FOREIGN** **KEY** (Piece) **REFERENCES** Pieces(Code),

Provider VARCHAR(40),

**FOREIGN** **KEY** (Provider) **REFERENCES** Providers(Code),

Price INTEGER **NOT** **NULL**,

**PRIMARY** **KEY**(Piece, Provider)

);

**INSERT** **INTO** Providers(Code, Name) **VALUES**('HAL','Clarke Enterprises');

**INSERT** **INTO** Providers(Code, Name) **VALUES**('RBT','Susan Calvin Corp.');

**INSERT** **INTO** Providers(Code, Name) **VALUES**('TNBC','Skellington Supplies');

**INSERT** **INTO** Pieces(Code, Name) **VALUES**(1,'Sprocket');

**INSERT** **INTO** Pieces(Code, Name) **VALUES**(2,'Screw');

**INSERT** **INTO** Pieces(Code, Name) **VALUES**(3,'Nut');

**INSERT** **INTO** Pieces(Code, Name) **VALUES**(4,'Bolt');

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(1,'HAL',10);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(1,'RBT',15);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(2,'HAL',20);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(2,'RBT',15);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(2,'TNBC',14);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(3,'RBT',50);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(3,'TNBC',45);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(4,'HAL',5);

**INSERT** **INTO** Provides(Piece, Provider, Price) **VALUES**(4,'RBT',7);