**create** **database** tabledb;

**use** tabledb;

**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)

);

-- alternative one for SQLite

/\*

CREATE TABLE Provides (

Piece INTEGER,

Provider VARCHAR(40),

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);

#1

**select** name **from** pieces;

#2

**select** \* **from** providers;

#3

**select** piece, **avg**(price)

**from** provides **group** **by** piece;

#4

**select** providers.name **from** providers **right** **join**

**on** providers.code = provides.piece

**where** piece = 1;

#5

**SELECT** pieces.name **from** pieces **right** **join** provides

**on** pieces.code = provides.piece

**where** provider = 'HAL';

#6

#7

**insert** **into** Provides(Piece, Provider, Price) **VALUES**(1,'TNBC', 7);

#8

**update** PROVIDES **set** price = price+1;

#9

**DELETE** **FROM** Provides

**WHERE** Provider = 'RBT'

**AND** Piece = 4;

#10

**DELETE** **FROM** Provides

**WHERE** Provider = 'RBT';z