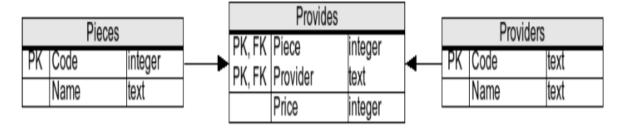
QUESTIONS;-



CODE-

```
1 •
      Create database dablb6;
 2 use dablb6;
 3
 4 • ⊝ CREATE TABLE Pieces (
         Code INTEGER PRIMARY KEY NOT NULL,
 5
 6
         Name TEXT NOT NULL
 7
         );

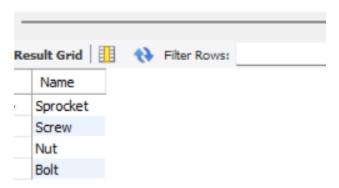
    ● CREATE TABLE Providers (

         Code VARCHAR(40)
 9
10
         PRIMARY KEY NOT NULL,
11
         Name TEXT NOT NULL
12
         );
13 • ⊖ CREATE TABLE Provides (
14
         Piece INTEGER,
         FOREIGN KEY (Piece) REFERENCES Pieces(Code),
15
         Provider VARCHAR(40),
16
         FOREIGN KEY (Provider) REFERENCES Providers(Code),
17
18
         Price INTEGER NOT NULL,
         PRIMARY KEY(Piece, Provider)
19
20
         );
```

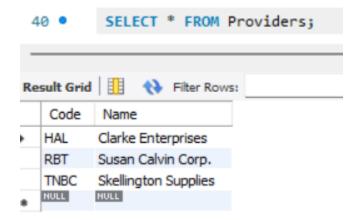
```
INSERT INTO Providers(Code, Name) VALUES('HAL', 'Clarke Enterprises');
INSERT INTO Providers(Code, Name) VALUES('RBT','Susan Calvin Corp.');
INSERT INTO Providers(Code, Name) VALUES('TNBC', 'Skellington Supplies');
INSERT INTO Pieces(Code, Name) VALUES(1, 'Sprocket');
INSERT INTO Pieces(Code, Name) 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 the name of all the pieces.

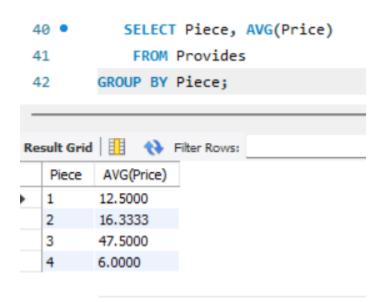
40 • SELECT Name FROM Pieces;



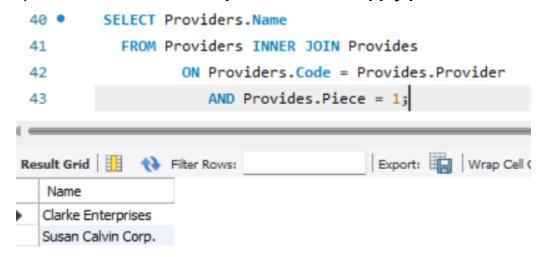
2) Select all the providers data.



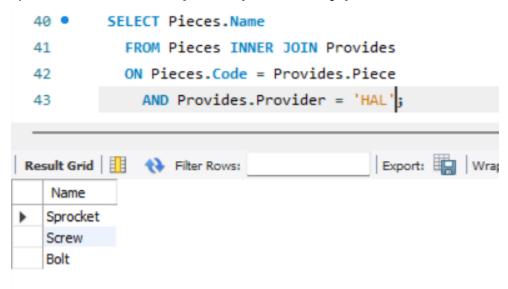
3)Obtain the average price of each piece (show only the piece code and the average price).



4)Obtain the names of all providers who supply piece



5) Select the name of pieces provided by provider with code HAL

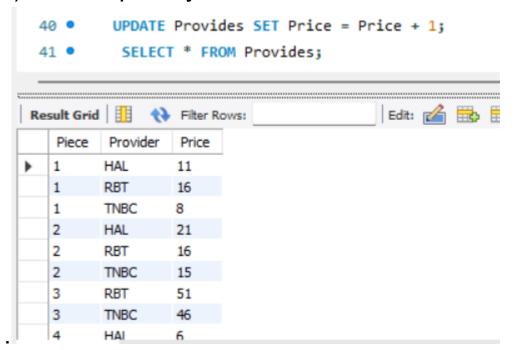


6)For each piece, find the most expensive offering of that piece and include the piece name, provider name, and price (note that there could

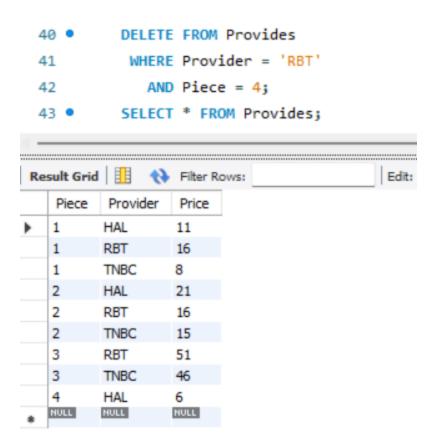
be two providers who supply the same piece at the most expensive price).

```
40 •
         SELECT Pieces.Name, Providers.Name, Price
            FROM Pieces INNER JOIN Provides ON Pieces.Code = Piece
 41
                        INNER JOIN Providers ON Providers.Code = Provider
 42
           WHERE Price =
 43
 44
 45
              SELECT MAX(Price) FROM Provides
             WHERE Piece = Pieces.Code
 46
 47
           );
                                         Export: Wrap Cell Content: IA
Name
                           Price
           Name
           Clarke Enterprises
  Screw
                           20
  Sprocket
           Susan Calvin Corp.
  Nut
           Susan Calvin Corp.
                           50
  Bolt
           Susan Calvin Corp. 7
```

8)Increase all prices by one cent..



9)Update the database to reflect that "Susan Calvin Corp(code RBT) will not supply bolts (code 4).



10)Update the database to reflect that; Susan Calvin Corp(code; RBT) will not supply any pieces (the provider should still remain in the database).

