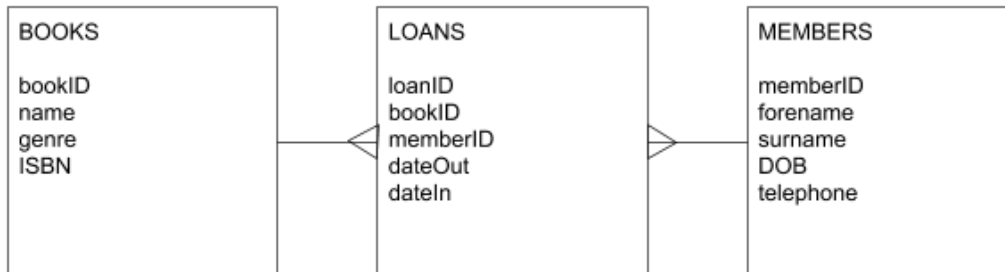


Revision Sheet #7

1) Convert the following number bases:

- 45 base 10 into binary
- 01101100 base 2 into base 16
- 11000011 base 2 into base 10
- #36 base 16 into base 10
- #FA base 16 into base 2



2) Write some SQL that displays all members who were born before 01/01/2000

3) Write some SQL that lists all books that are a 'Thriller'

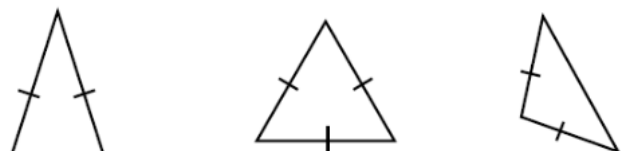
4) Write some SQL that displays all members who have books still on loan

- There are missing parameters to the function on line 1, what should be in place for ****A**** and ****B****?
- What is a syntax error?
- What line is the syntax error on in the function?
- What is a logic error?
- What is the logic error in the code?
- There is a syntax error on lines 11 and 12. What is it?
- Given the Sexy Code rules, how would you improve this code?

```

1 def getNumber(message, **A**, **B** ):
2     while True:
3         try:
4             val = int(input("message"))
5             if (val > minVal) or (val < maxVal):
6                 raise Exception
7             return val
8         except:
9             print("Invalid entry")
10
11 x = getNumber("What is your age?")
12 y = getNumber("What id your friends age?")
13
14 name1 = input("What is your name?")
15 name2 = input("What is your friends name?")
16
17 if x > y:
18     print("You are older than", name2)
19 elif y > x:
20     print("Your friend is older")
21 else:
22     print("You are same age")
    
```

12) An isosceles triangle is a triangle that has at least 2 equal sides. The diagram shows examples. In each diagram that marked sides are equal. Write an algorithm that determines whether a triangle is an isosceles triangle.



- The user inputs the lengths of the 3 sides as length1, length2 and length3
- If any 2 sides have the same length the program outputs "Isosceles"
- Otherwise the program outputs "Not isosceles"