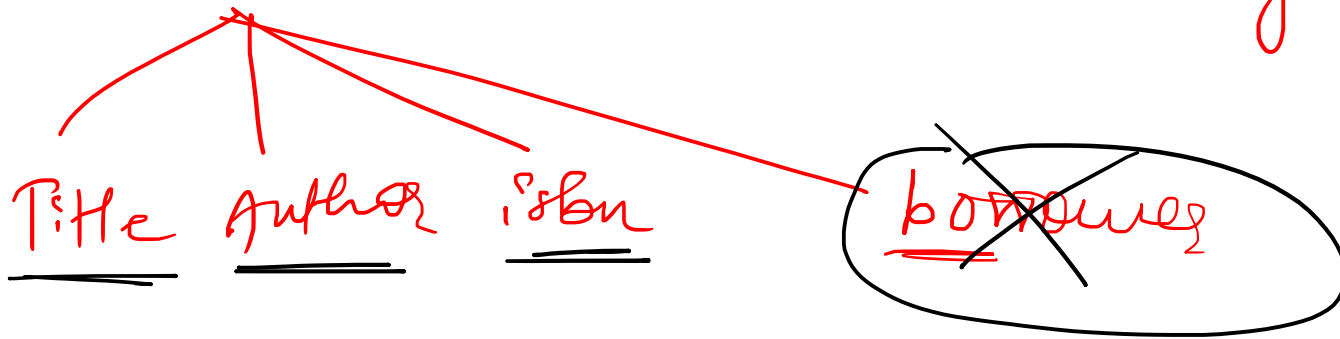


Library Database -

BOOKS

Nesting in structures -



book(title(Cherry tree), author(rustin bond), isbn(1234567890)).
↑ ↑ ↑
person(name(David Warner), phone(12345678), nationality(australian)).

Structures in Prolog —

Arrays

```
int i = 5 ;  
float pi = 3.14 ;  
char s = 'S' ;
```

Person's information

{ name =
age =
address :

Structures —

```
struct person {  
    char name[10];  
    char gender[5];  
    long phone;  
} p1, p2;
```

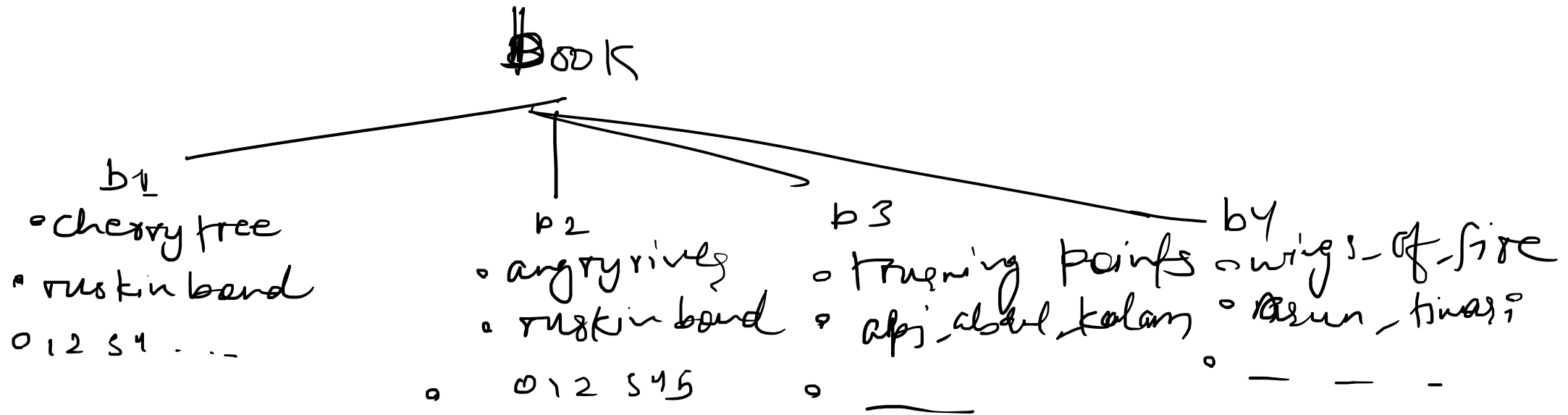
X(A, B)

book(title(cherry-tree), author(ruskin-bond), isbn(123456789)).

book(title(angry-river), author(ruskin-bond), isbn(2345678901)).

book(title(turning-points), author(aji-abdul-kalam), isbn(1234)).

book(title(wings-of-fire), author(asun-tiwari), isbn(34567)).



Query for displaying all the books in the knowledge base.

? - book(title(X), author(Y), isbn(Z)).

title(cherry-tree), author(ruskin-band), isbn()

title(angry-river), author(ruskin-band), isbn()

Query for all the books written by ruskin band?

? - book(title(X), author(ruskin-band), isbn(Z)).

Query for author of turning points?

? - book(title(turning-points), author(X), isbn(1234567890)).

Nesting of structures -

? - book(ti

Good omens Book with multiple authors
Nesting of Structures.

Neil Gaiman

Terry

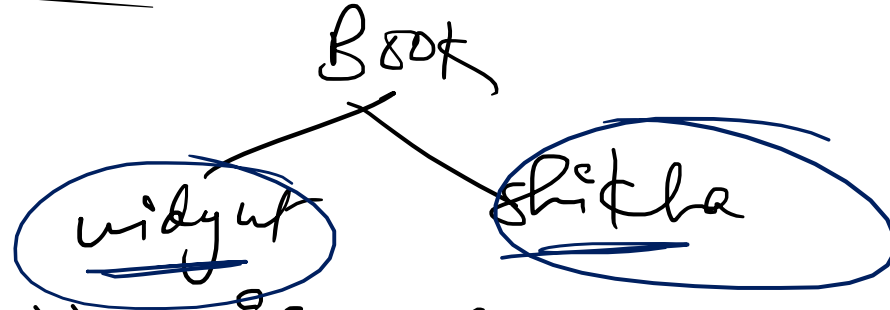
book(title(good_omens), (author(fauthor(neil), sauthor(terry)), isbn(12345))).

? - book(title(good_omens), (author(fauthor(X), Sauthor(terry)), isbn(12345))).
Sauthor (X).

Issuing the book —

book ().

{ owns(widyut, book).
owns(shikha, book). }

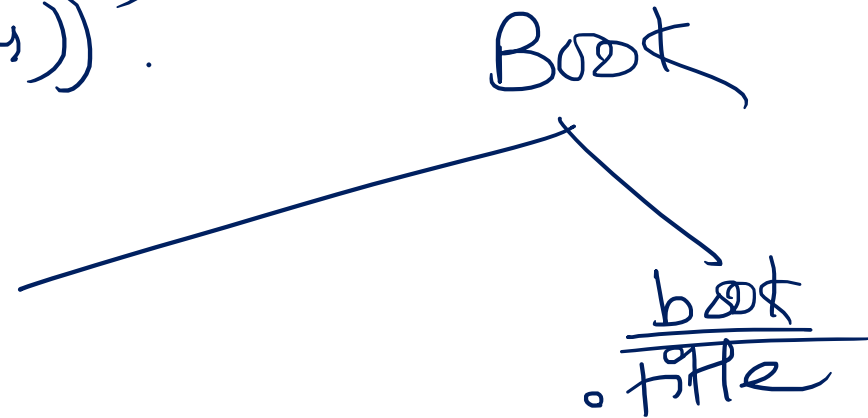


Not able to distinguish b/w books

~~{ owns(widyut, book(title(turning points))).
owns(shikha, book(title(angry-rivers))). }~~

? book
?- owns(widyut, x)

book
• author
• title
• isbn



Assumption -

for every book in the library there exists a borrower

owns(vidyut, book(title(angry-river), author(ruskin-bond), isbn(12345))).
book(title(angry-river), author(ruskin-bond), isbn(12345),
borrower(vidyut)).

Make structures for ~~businesses~~ owned by
Tata and Reliance group?

{ Company
◦ name
◦ sector
◦ ceo

Company(name(tcs), sector(it), ceo(rajesh)).