1. π No\_of\_copies ( σ(Title= ‘The Lost Tribe’ AND Branch\_name=’Sharpstown’) (BOOK ⋈ BOOK\_COPIES ⋈LIBRARY\_BRANCH)

)

1. Branch\_idℑCOUNT No\_of\_copies ( σ(Title= The Lost Tribe) (BOOK ⋈ BOOK\_COPIES ⋈LIBRARY\_BRANCH)

)

1. πName ( BORROWER ⋈ (

π(Card\_no) (BORROWER) - π(Card\_no)(BOOK\_LOANS)

) )

1. πTitle, Name, Address ( σ(Branch\_name=Sharpstown AND Due\_data=today) (BOOK [⋈ BOOK\_LOANS ⋈LIBRARY\_BRANCH ⋈ BORROWER) )](http://en.wikipedia.org/wiki/Relational_algebra#Natural_join_.28.E2.8B.88.29)
2. Branch\_idℑ ( Branch\_name, COUNT No\_of\_copies) (LIBRARY\_BRANCH [⋈ BOOK\_COPIES) )](http://en.wikipedia.org/wiki/Relational_algebra#Natural_join_.28.E2.8B.88.29)
3. πName, Address, Book\_count (

(σ(Book\_count > 5) ( (Card\_no, Book\_count) <-

(Card\_noℑcount(Book\_id)(BOOK\_LOANS))

) )

⋈ BORROWER

)

7. πTitle, No\_of\_copies ( σ(Author\_name=’Stephen King’ AND Branch\_name=’Central’) (Book ⋈BOOK\_AUTHORS [⋈ BOOK\_COPIES ⋈LIBRARY\_BRANCH) )](http://en.wikipedia.org/wiki/Relational_algebra#Natural_join_.28.E2.8B.88.29)