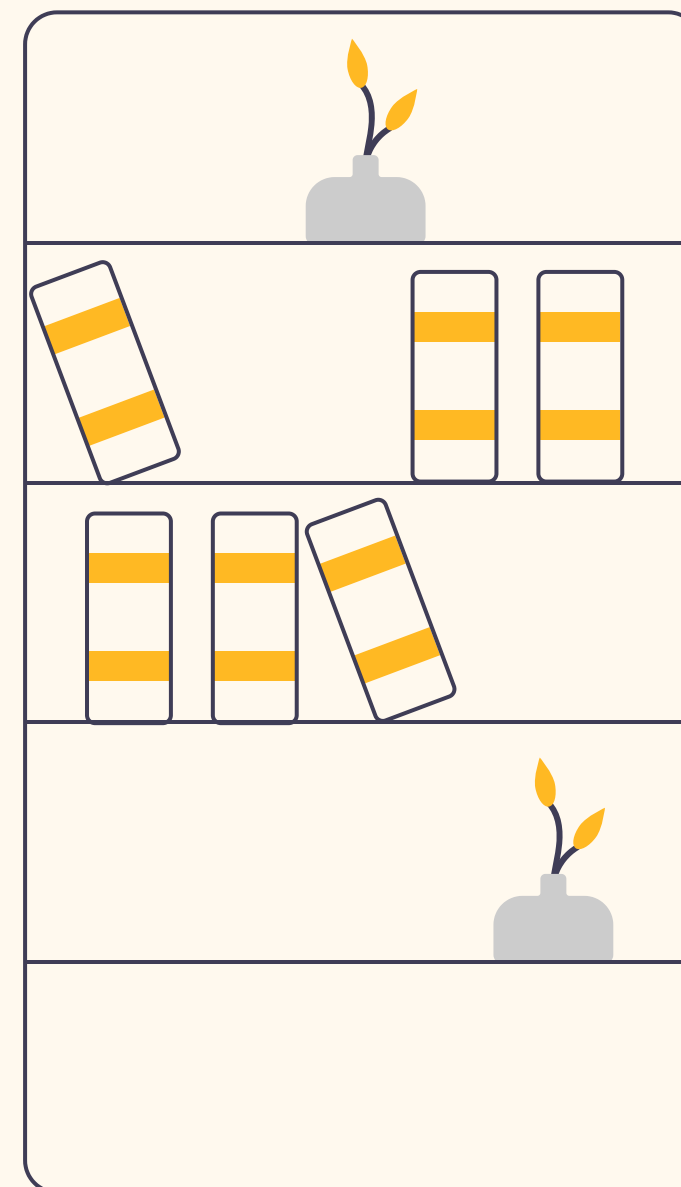




NIT JALANDHAR

Library Management



An Efficient Database Management System



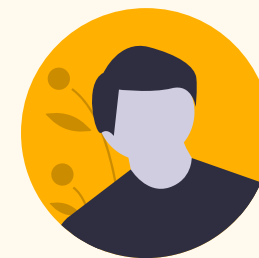
Thank you for providing us with knowledge and motivation which assisted us a lot in this project. we are grateful to share that this project really helped us with practical learning of DBMS



Dr. Nisha Chaurasia



Mrs. Pooja Sharma



Dr. Mandeep Kumar

How this DBMS
helps in real-life
problem-solving?



1

Handles library accounts

2

Reader oriented (efficient for serious readers)

3

Helps in making records, book dues automatically

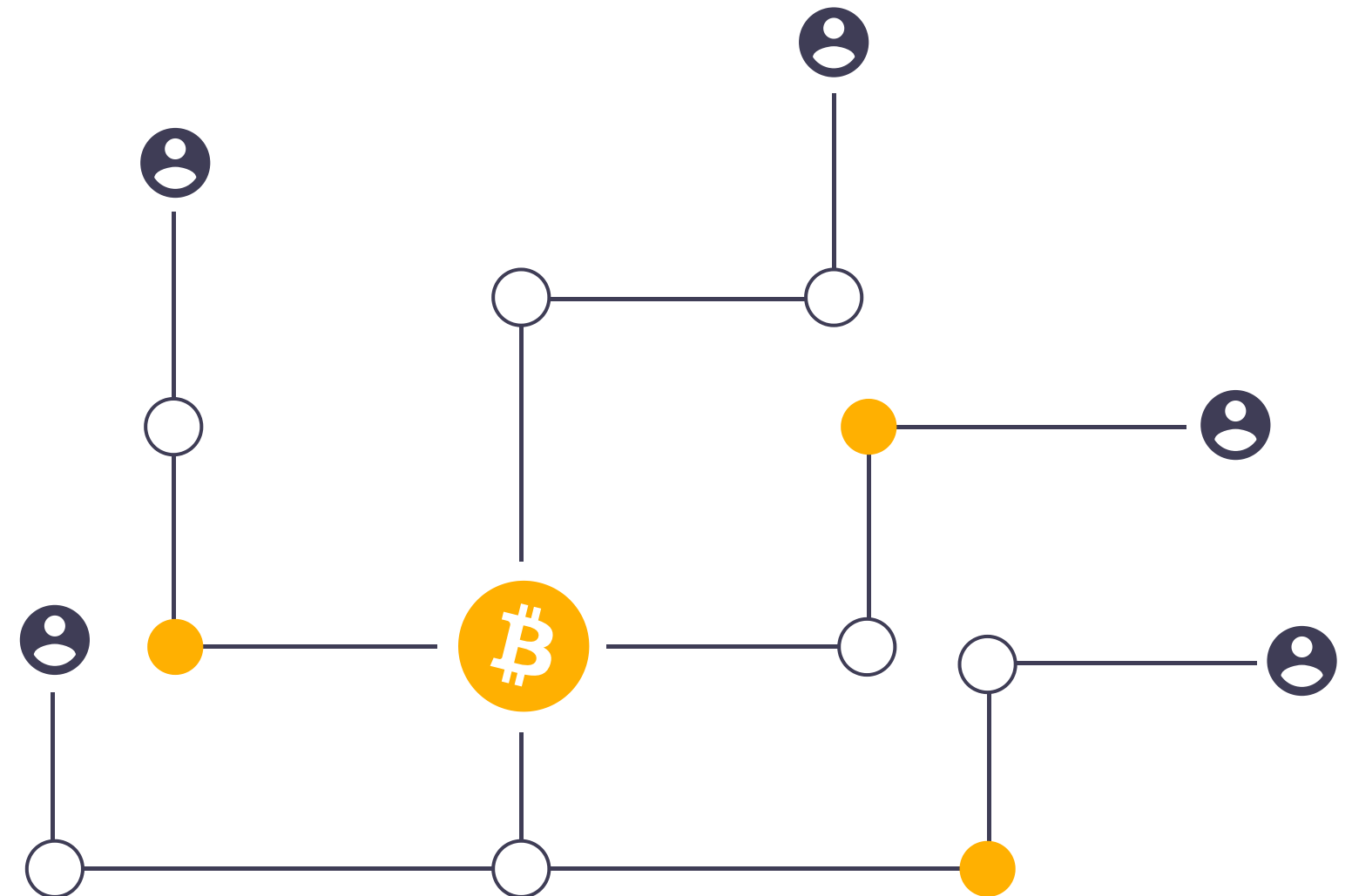
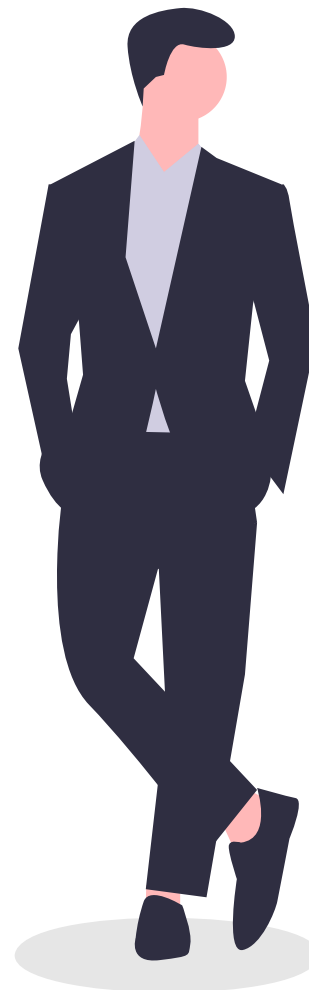
4

It is optimized to generate more profits (Explained later)

INDEX

Before we start with the PPT,
let's warm up a little with topics we are
going to discuss

- 1 Introduction
- 2 Brief about tables being used in our DBMS
- 3 ER Diagram of our DBMS
- 4 Normalization
- 5 Practical (switching to editor)
- 6 Conclusion



HOW OUR PROJECT IS NOT AN ORDINARY PROJECT

- ✓ Before starting, Let us share with you that our project satisfies all 4 practical normal forms, which we will discuss later in slides

1

Oriented towards account findings, not book finding!

2

Deals with account type

- Premium plan
- Platinum plan
- Gold plan
- Basic paln

3

We have made it possible for reader to search book of his/her favourite author efficiently

4

It manages active readers and passive readers separately, thus making it more efficient and profitable. we will discuss it later

Tables used

readers

- reader_id
- first_name
- last_name
- city
- mobile_no.
- occupation
- date_of_birth

book

- book_id
- book_name
- book_domain

author

- author_id
- author_name
- book_id

book_issue_deatils

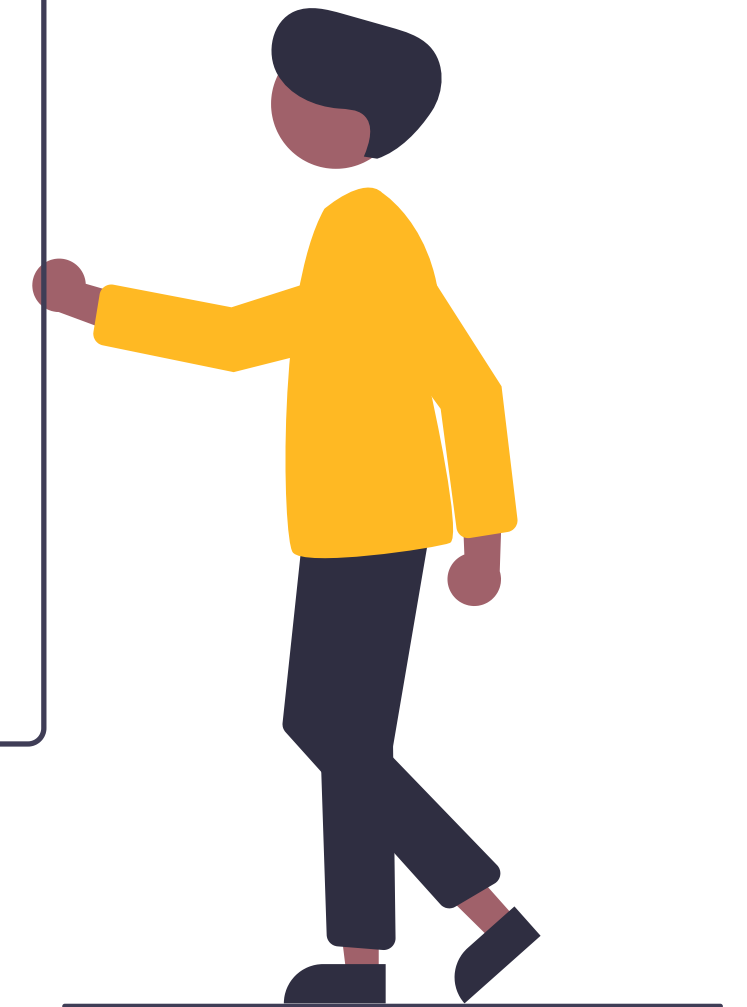
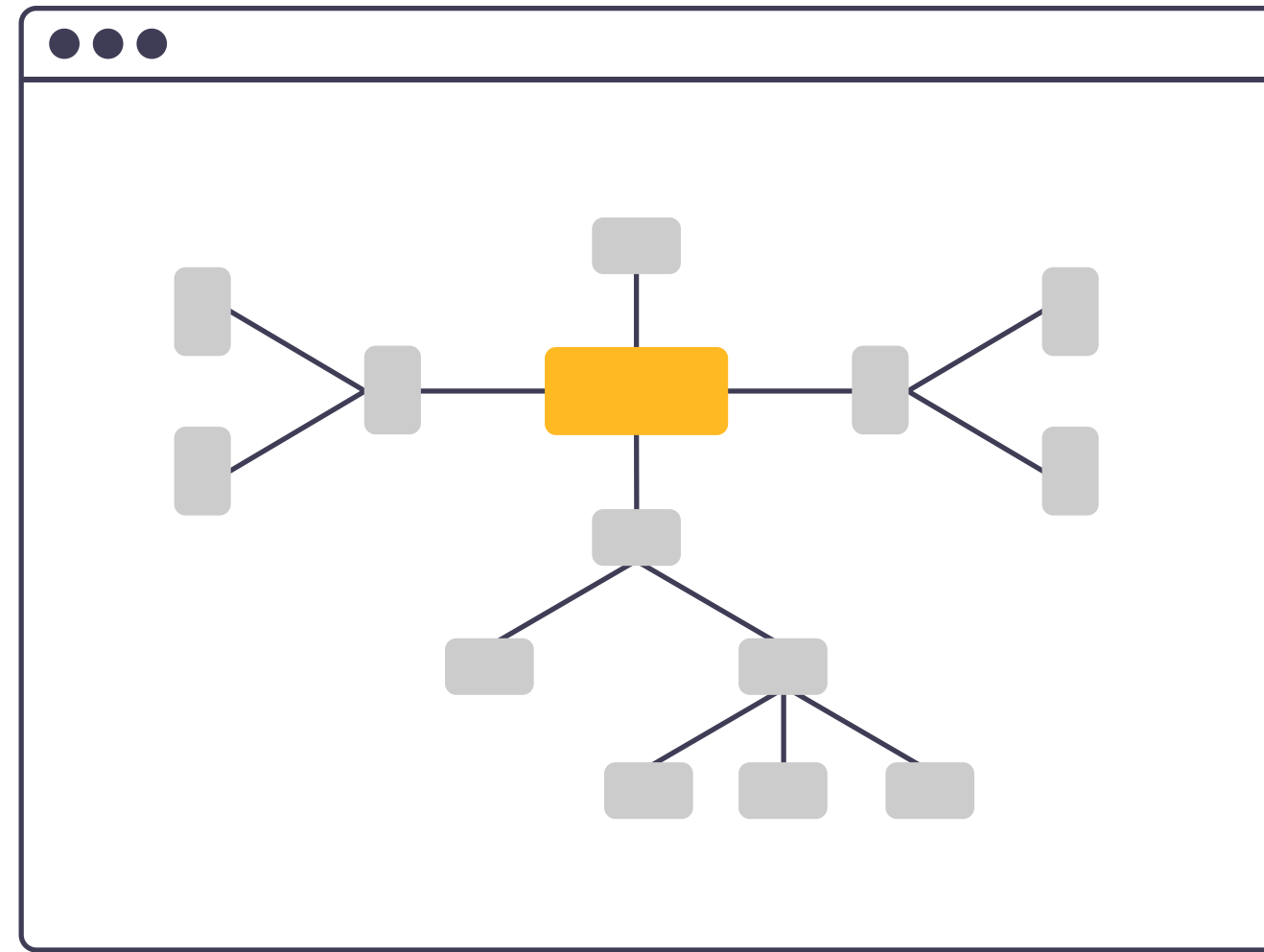
- issue_number
- account_id
- book_id
- book_name
- num of issued books
- first_issue_date

active_readers

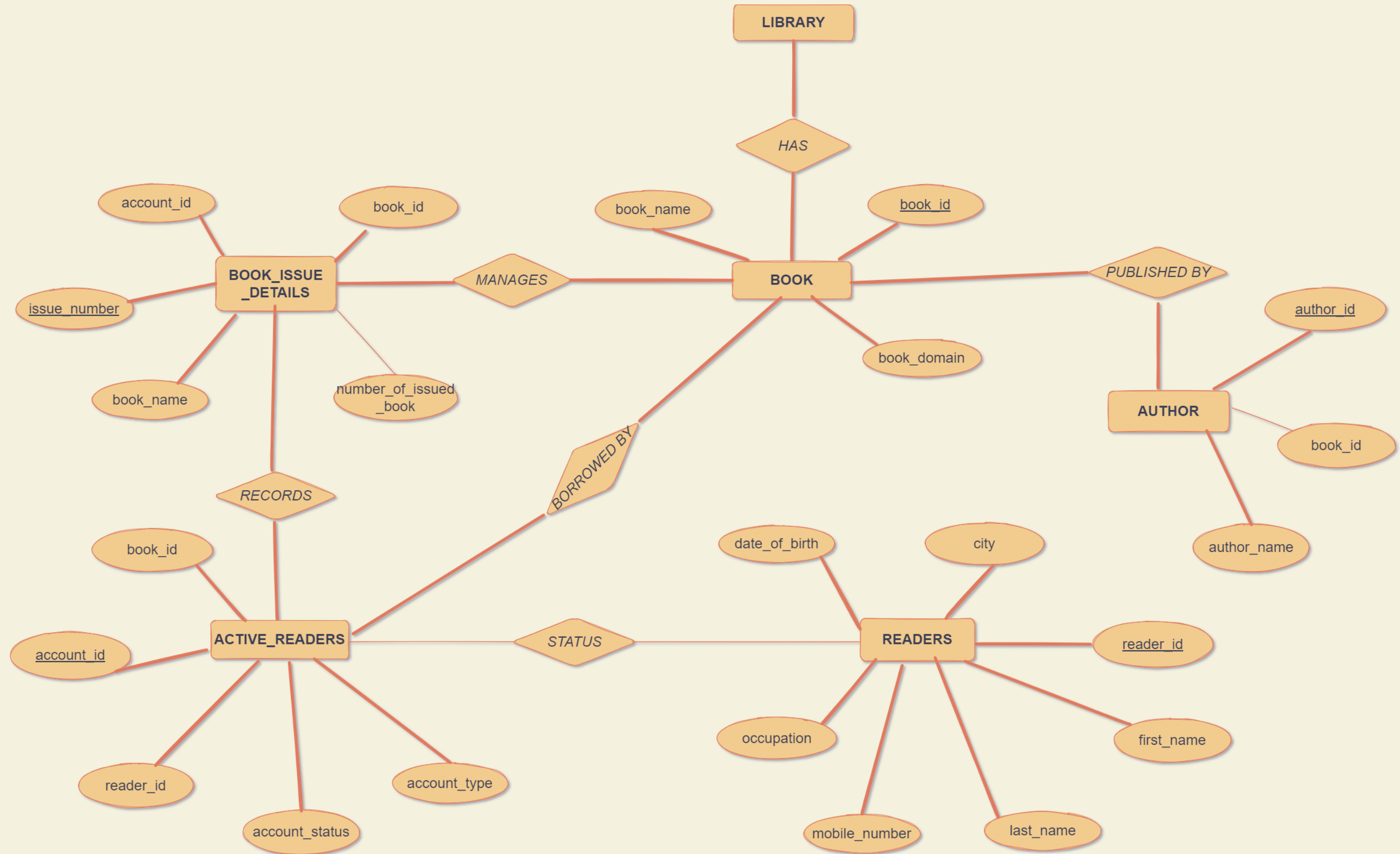
- account_id
- reader_id
- book_id
- account_type
- account_status

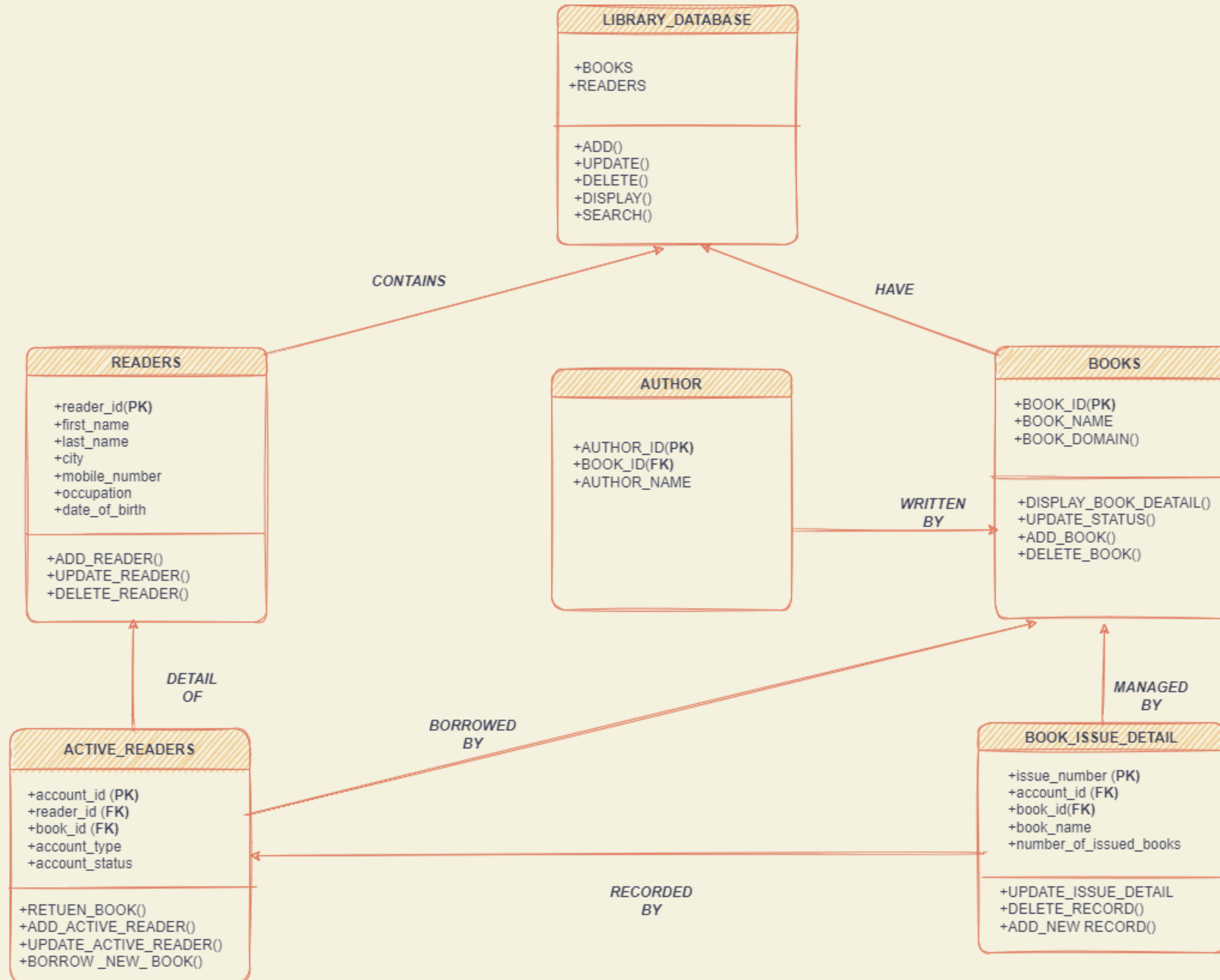
● BLUE INDICATES PRIMARY KEY

● RUBY RED INDICATES FOREIGN KEY



Let's move towards
ER diagrams section!





Let's get into normalization

1N Form

issue_date

number_of_book_issued

book_name

book_domain

account_id

account_type

account_status

issue_number

account_id

book_id

author_name

Reader_id

First_name

Last_name

city

Mobile_number

Occupation

Date_of_birth

2N, 3N Forms

book_id

book_name ,book_domain

account_id,reader_id,book_id

account_type,account_status

issue_number,account_id,book_id

book_name,issue_date, number_of_book_issued

author_id,book_id

author_name

reader_id

first_name,last_name,city, mobile_number,occupation,date_of_birth

Wait is over!
Switching to vscode!

Let's begin :)

Thank you!



Have a great
day ahead.

- Ashutosh Tripathi 20124022
- Hartik Salaria 20124037
- Jaspreet Singh 20124043
- Ujjwal Kumar Singh 20124107