DATABASE MANAGEMENT SYSTEMS 2

ONLINE BOOK STORE

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INTRUDUCTION

One of the most relevant topics in the database is the bookstore

This project was implemented using PL/SQL. This is the beginning of a platform that gives people the opportunity to conveniently and comfortably choose the literature they need without leaving home.

INTRUDUCTION

Relevance of the topic

In Kazakhstan, the level of informatization and progress in the field of information technology is constantly increasing. To date, especially after Covid, the demand for online shopping services has increased.

INTRUDUCTION

Project objective

The purpose of this work is to create an online store for the sale of books on various topics so that people can use it conveniently.

The buyer selects a book from the catalog on the store's website

Checks for availability of books in the BOOKS table and displays book information such as title, author, price, and publication yeard.

PROCESS OF BOOK_SHOP

The buyer enters such data as first name, last name, delivery address and contact details.

The system checks if this data exists in the 'COSTUMERS' table and adds it to the table if it is a new customer.

The system calculates the cost of the order, including the cost of delivery

PROCESS OF BOOK_SHOP

System updates the entry in table 'BOOKS' and reduces the number of available instances by one

The customer receives an order confirmation and information about the date and time of delivery.

PROCESS OF BOOK_SHOP

After that, the staff will pack the book and prepare the shipment, and then change the "Order_Status"

After delivery, the customer can leave feedback in the "FEEDBACKS" table about the book and the purchase process.

Tables

BOOKS

The book table contains the attributes book_id, book_name, bpub_year, price, ISBN and author_id.

AUTHORS

The authors table contains the attributes author_id, afirst_name, alast_name, a_email

PUBLISHER

The publisher table contains the attributes publisher_id,book_id, author_id, pub_year, pub_name

CUSTOMERS

The customers table contains the attributes customer_id, cfirst_name, clast_name, c_email, address.

Tables

STAFFS

The staff table contains the attributes staff_id, sfirst_name, slast_name, s_email and status.

ORDERS

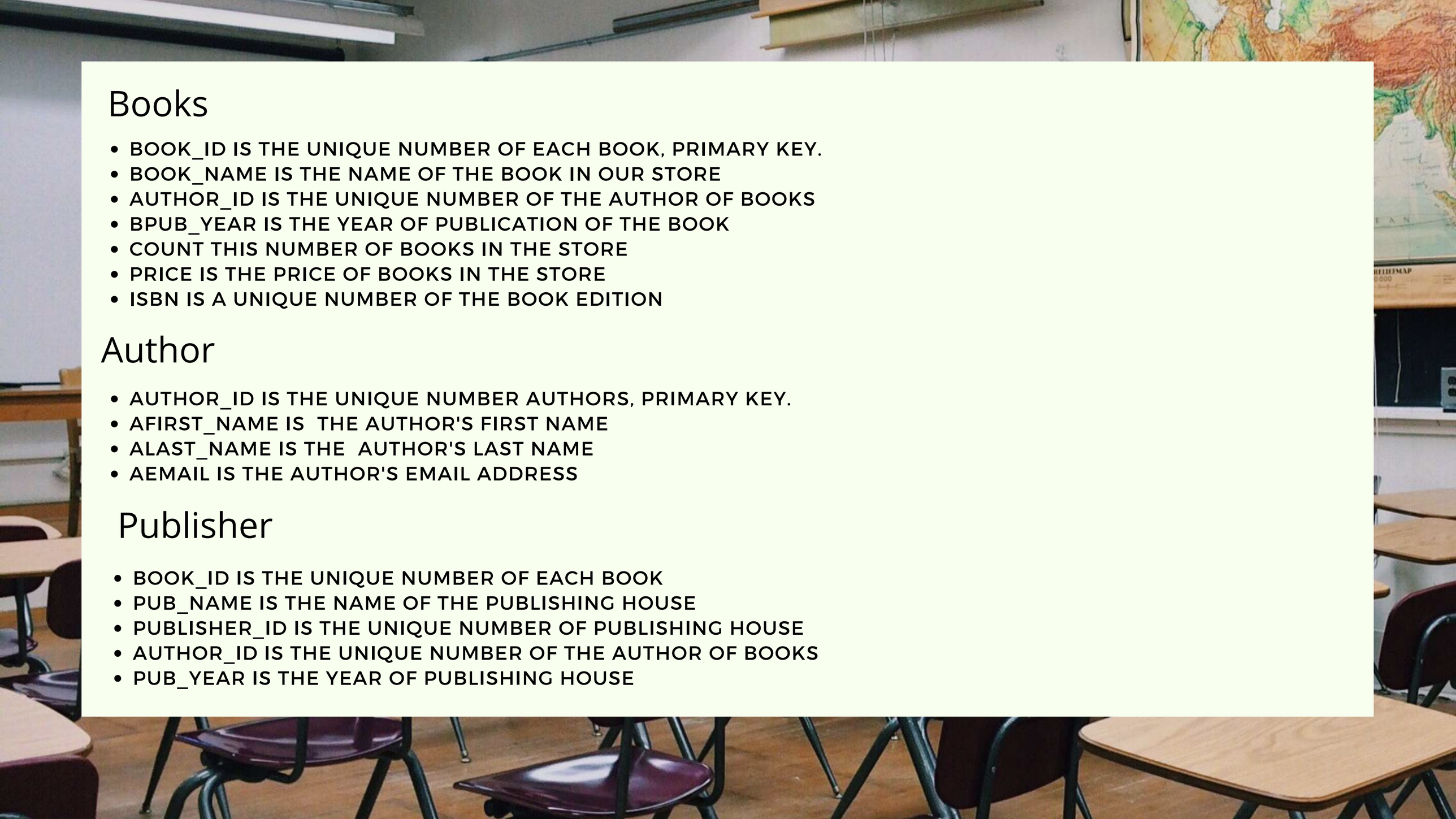
The staff table contains the attributes staff_id, sfirst_name, slast_name, s_email and status.

FEEDBACKS

The feedbacks table contains the attributes feedback_id, fcomment, customer_id, book_id, staff_id

CATEGORIES

The categories table contains the attributes category_id book_id, readership, genre.



Books

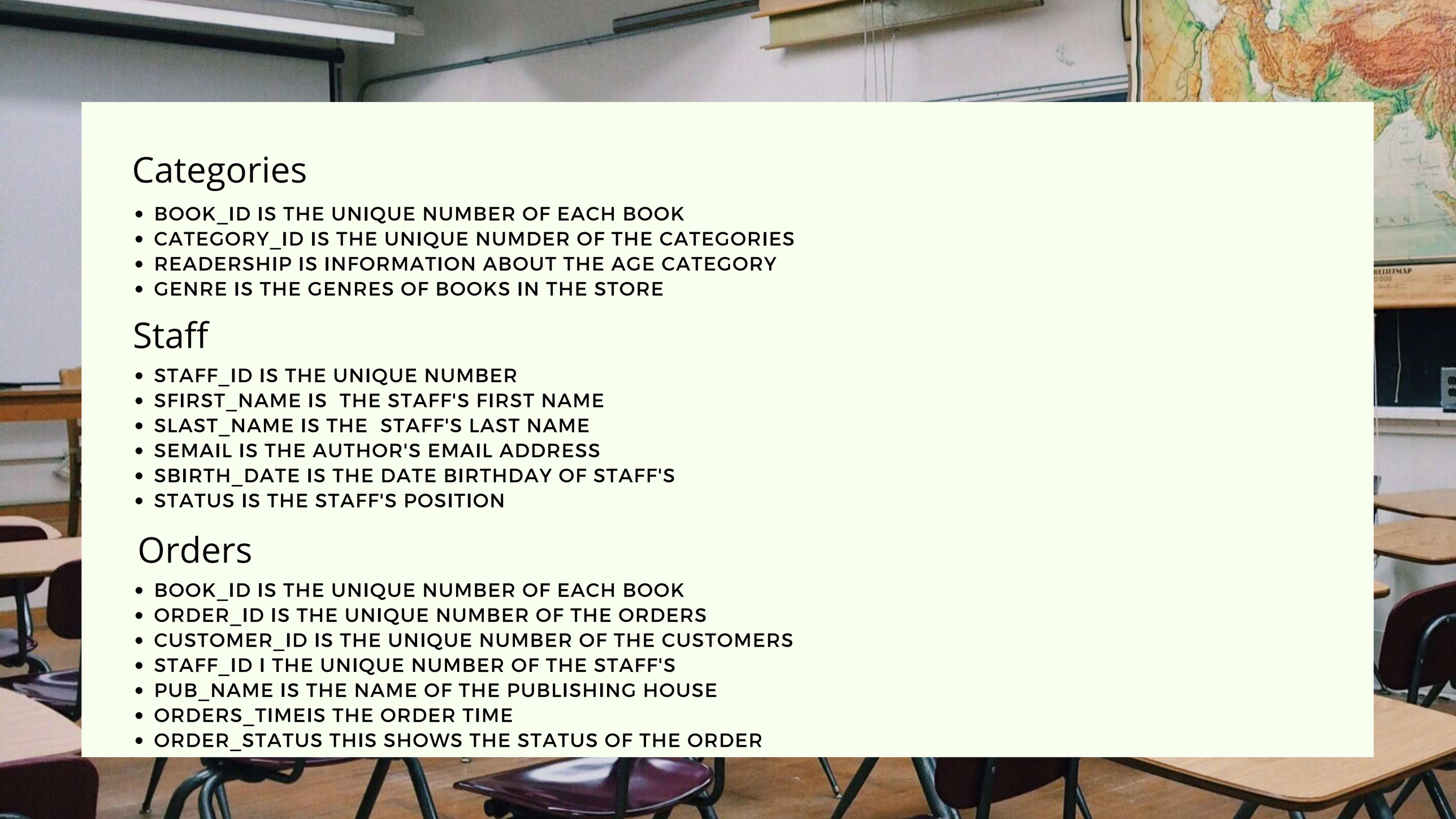
- BOOK_ID IS THE UNIQUE NUMBER OF EACH BOOK, PRIMARY KEY.
- BOOK_NAME IS THE NAME OF THE BOOK IN OUR STORE
- AUTHOR_ID IS THE UNIQUE NUMBER OF THE AUTHOR OF BOOKS
- BPUB_YEAR IS THE YEAR OF PUBLICATION OF THE BOOK
- COUNT THIS NUMBER OF BOOKS IN THE STORE
- PRICE IS THE PRICE OF BOOKS IN THE STORE
- ISBN IS A UNIQUE NUMBER OF THE BOOK EDITION

Author

- AUTHOR_ID IS THE UNIQUE NUMBER AUTHORS, PRIMARY KEY.
- AFIRST_NAME IS THE AUTHOR'S FIRST NAME
- ALAST_NAME IS THE AUTHOR'S LAST NAME
- AEMAIL IS THE AUTHOR'S EMAIL ADDRESS

Publisher

- BOOK_ID IS THE UNIQUE NUMBER OF EACH BOOK
- PUB_NAME IS THE NAME OF THE PUBLISHING HOUSE
- PUBLISHER_ID IS THE UNIQUE NUMBER OF PUBLISHING HOUSE
- AUTHOR_ID IS THE UNIQUE NUMBER OF THE AUTHOR OF BOOKS
- PUB_YEAR IS THE YEAR OF PUBLISHING HOUSE



Categories

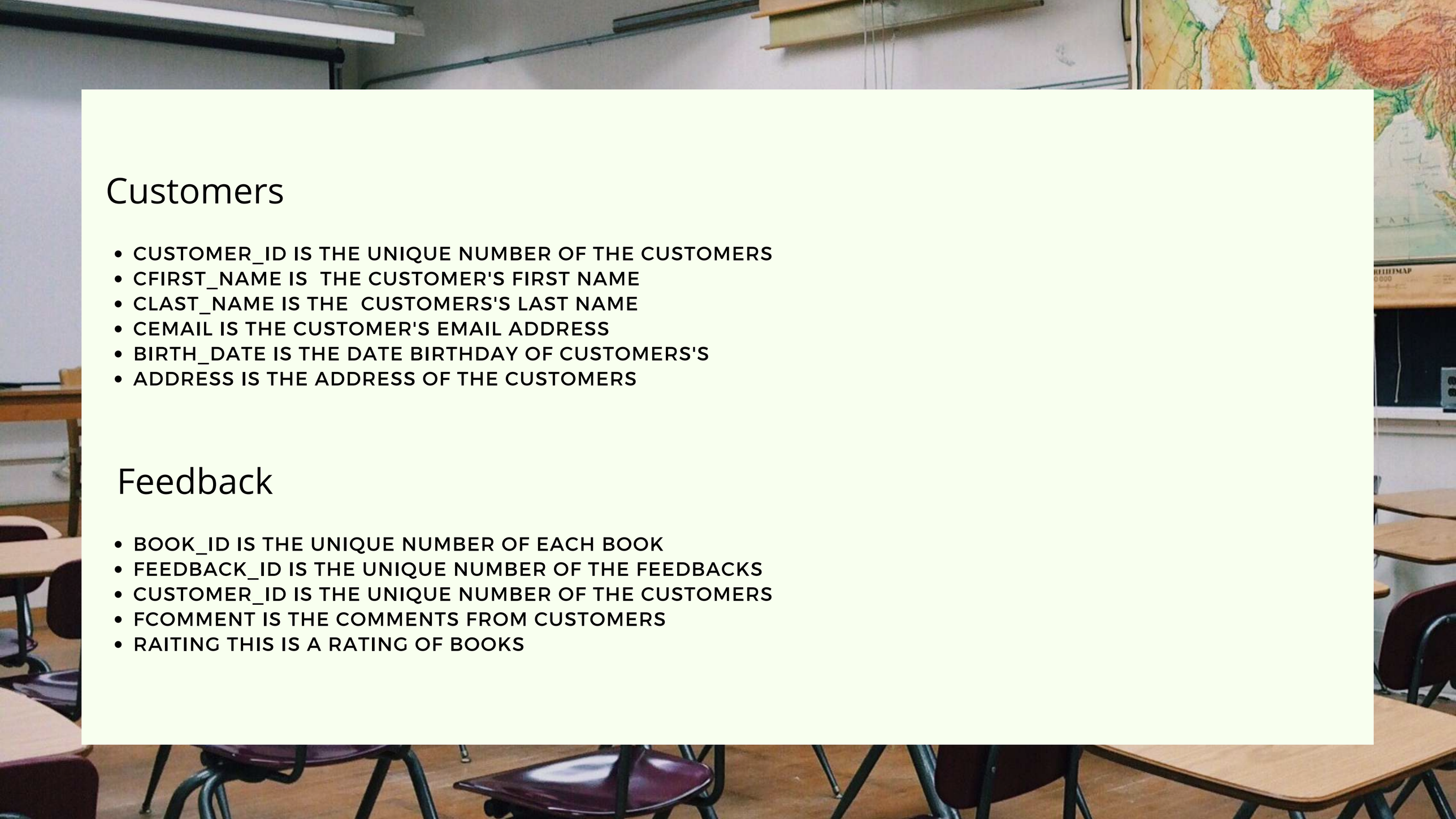
- BOOK_ID IS THE UNIQUE NUMBER OF EACH BOOK
- CATEGORY_ID IS THE UNIQUE NUMDER OF THE CATEGORIES
- READERSHIP IS INFORMATION ABOUT THE AGE CATEGORY
- GENRE IS THE GENRES OF BOOKS IN THE STORE

Staff

- STAFF_ID IS THE UNIQUE NUMBER
- SFIRST_NAME IS THE STAFF'S FIRST NAME
- SLAST_NAME IS THE STAFF'S LAST NAME
- SEMAIL IS THE AUTHOR'S EMAIL ADDRESS
- SBIRTH_DATE IS THE DATE BIRTHDAY OF STAFF'S
- STATUS IS THE STAFF'S POSITION

Orders

- BOOK_ID IS THE UNIQUE NUMBER OF EACH BOOK
- ORDER_ID IS THE UNIQUE NUMBER OF THE ORDERS
- CUSTOMER_ID IS THE UNIQUE NUMBER OF THE CUSTOMERS
- STAFF_ID I THE UNIQUE NUMBER OF THE STAFF'S
- PUB_NAME IS THE NAME OF THE PUBLISHING HOUSE
- ORDERS_TIMEIS THE ORDER TIME
- ORDER_STATUS THIS SHOWS THE STATUS OF THE ORDER



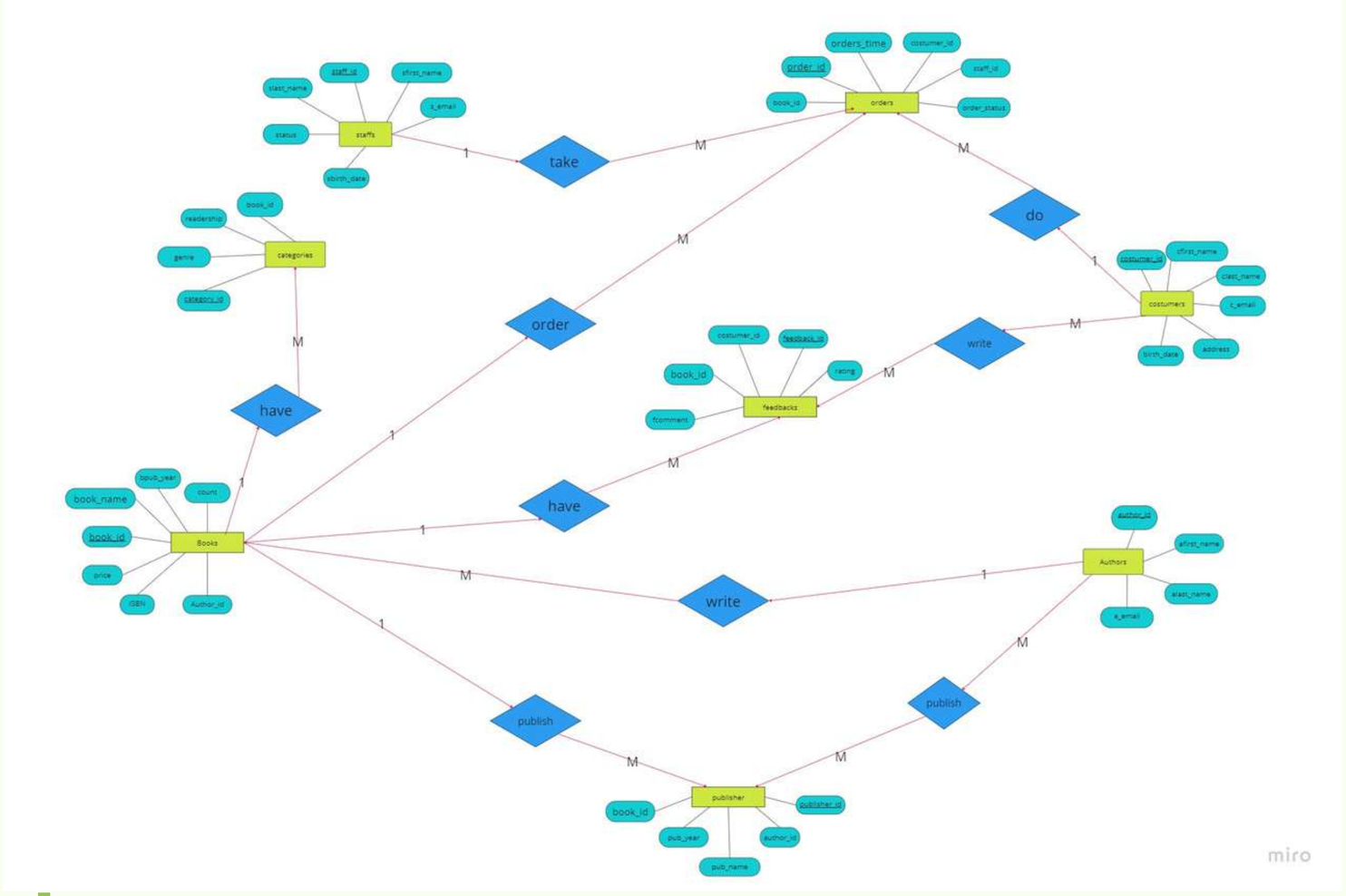
Customers

- CUSTOMER_ID IS THE UNIQUE NUMBER OF THE CUSTOMERS
- CFIRST_NAME IS THE CUSTOMER'S FIRST NAME
- CLAST_NAME IS THE CUSTOMERS'S LAST NAME
- CEMAIL IS THE CUSTOMER'S EMAIL ADDRESS
- BIRTH_DATE IS THE DATE BIRTHDAY OF CUSTOMERS'S
- ADDRESS IS THE ADDRESS OF THE CUSTOMERS

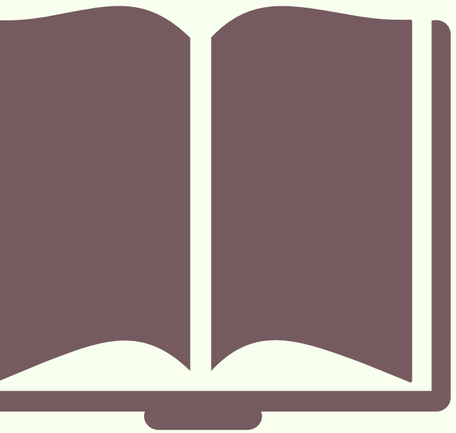
Feedback

- BOOK_ID IS THE UNIQUE NUMBER OF EACH BOOK
- FEEDBACK_ID IS THE UNIQUE NUMBER OF THE FEEDBACKS
- CUSTOMER_ID IS THE UNIQUE NUMBER OF THE CUSTOMERS
- FCOMMENT IS THE COMMENTS FROM CUSTOMERS
- RAITING THIS IS A RATING OF BOOKS

ENTITY RELATIONSHIP DIAGRAM



NORMALIZATION TABLE



books						
bpub_year	book_id	book_name	author_id	price	ISBN	count

costumers					
costumer_id	cfirst_name	clast_name	c_email	address	birth_date

orders					
order_id	staff_id	costumer_id	book_id	orders_time	order_status

publisher				
publisher_id	pub_name	book_id	author_id	pub_year

NORMALIZATION TABLE

author			
author_id	afirst_name	alast_name	a_email

staff					
staff_id	sfirst_name	slast_name	s_email	status	sbirth_date

feedback				
feedback_id	costumer_id	book_id	fcomment	rating

categories			
category_id	book_id	readership	genre

Thank you for your attention