



## DATABASE MANAGEMENT SYSTEMS 2

# ONLINE BOOK STORE

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## INTRODUCTION

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.***

## 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.***



## INTRODUCTION

# 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 year.***





## 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 'CUSTOMERS' 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.

## PUBLISHER



The publisher table contains the attributes publisher\_id, book\_id, author\_id, pub\_year, pub\_name

## AUTHORS



The authors table contains the attributes author\_id, afirst\_name, alast\_name, a\_email

## 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`.



## FEEDBACKS

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



## ORDERS

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



## 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 NUMBER 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 IS THE UNIQUE NUMBER OF THE STAFF'S
- PUB\_NAME IS THE NAME OF THE PUBLISHING HOUSE
- ORDERS\_TIME IS THE ORDER TIME
- ORDER\_STATUS THIS SHOWS THE STATUS OF THE ORDER



# Customers

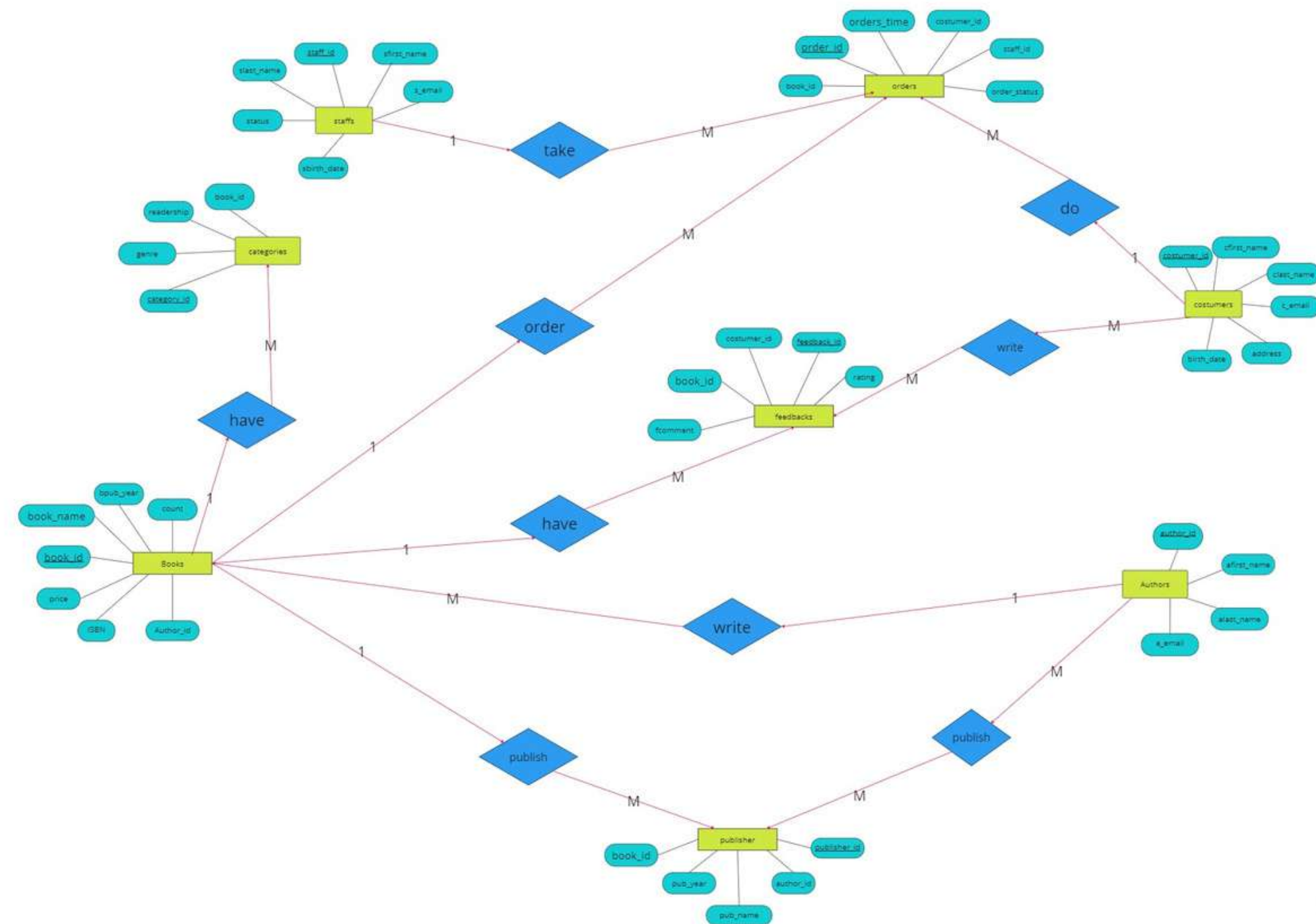
- CUSTOMER\_ID IS THE UNIQUE NUMBER OF THE CUSTOMERS
- CFIRST\_NAME IS THE CUSTOMER'S FIRST NAME
- CLAST\_NAME IS THE CUSTOMERS'S LAST NAME
- CEMAIL IS THE CUSTOMER'S EMAIL ADDRESS
- BIRTH\_DATE IS THE DATE BIRTHDAY OF CUSTOMERS'S
- ADDRESS IS THE ADDRESS OF THE CUSTOMERS

# 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*

