BURAK GÜL
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2nd Education

Project Task
Application Interface & Doc.
Design & Database

ÇUKUROVA ÜNİVERSİTESİ · 1973 ·

BOOK STORE

CEN352 PROJECT PRESENTATION FILE BOOKSTORE

DIGITAL LIBRARY

• Book store application is a website where people can buy book online. This site, which has unlimited books from many areas, is a site where the user can easily find the desired book by filtering method..
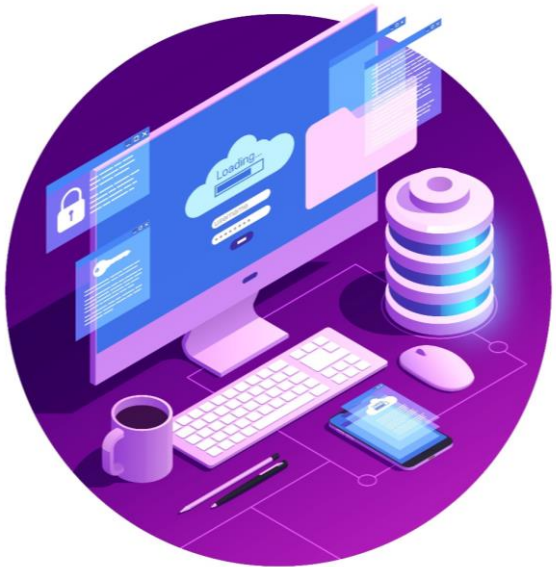
- The tasks I have taken in this project are as follows.

  > Application Interface & Document Design

  > Project Database

BOOKSTORE DATABASE MANAGEMENT

- ER diagram of a book stock management system is given below. Books are written by authors & published by the publishers. Shopping basket contains books. User takes book from shopping basket. •The bookstore keeps the name, surname, address, email, id, and phone of its users. User is uniquely identified by id. A user owns several shopping basket.

BOOKSTORE DATABASE MANAGEMENT

•Every book has a title, isbn, year and price. The store also keeps the author and publisher for any book. Book is uniquely identified by ISBN. •For authors, the database keeps the aname, asurname and aid. Author is uniquely identified by aID. •For publishers, the database keeps the pname, paddress and phonenumber. Publisher is uniquely identified by pname. •For shopping basket, the database keeps the basketID that is uniquely identified by basket id.

- -Many author writes many books.

- -A publisher can publish many books.

- -A user can have many shopping baskets.

- -A shopping basket contains many books.

DATABASE SCHEMA & RELATIONSHIP BETWEEN TABLES

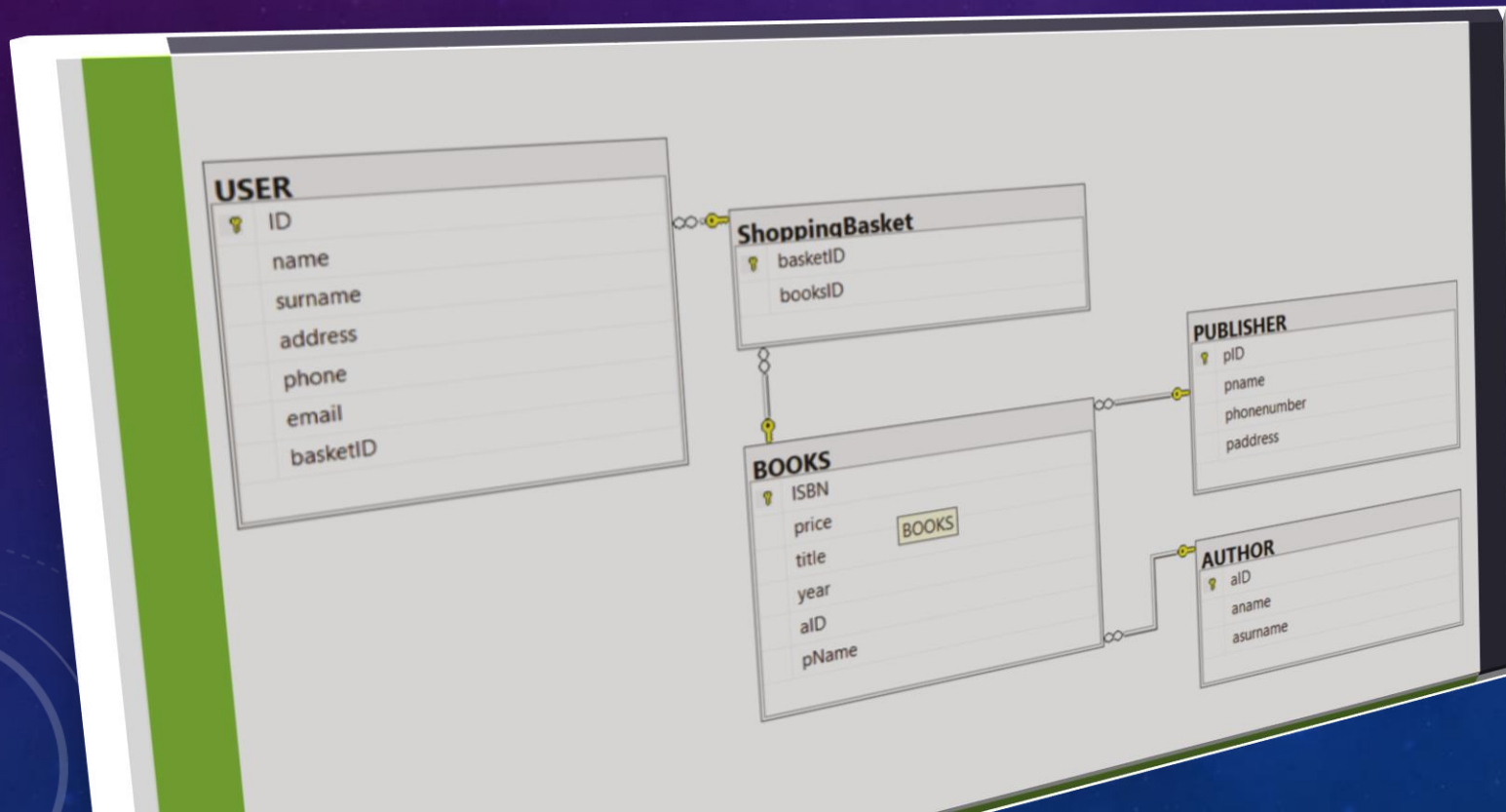BOOKS (ISBN , PRİCE , TİTLE , YEAR)

USERS (ID , NAME , SURNAME , ADDRESS , PHONE , EMAİL)
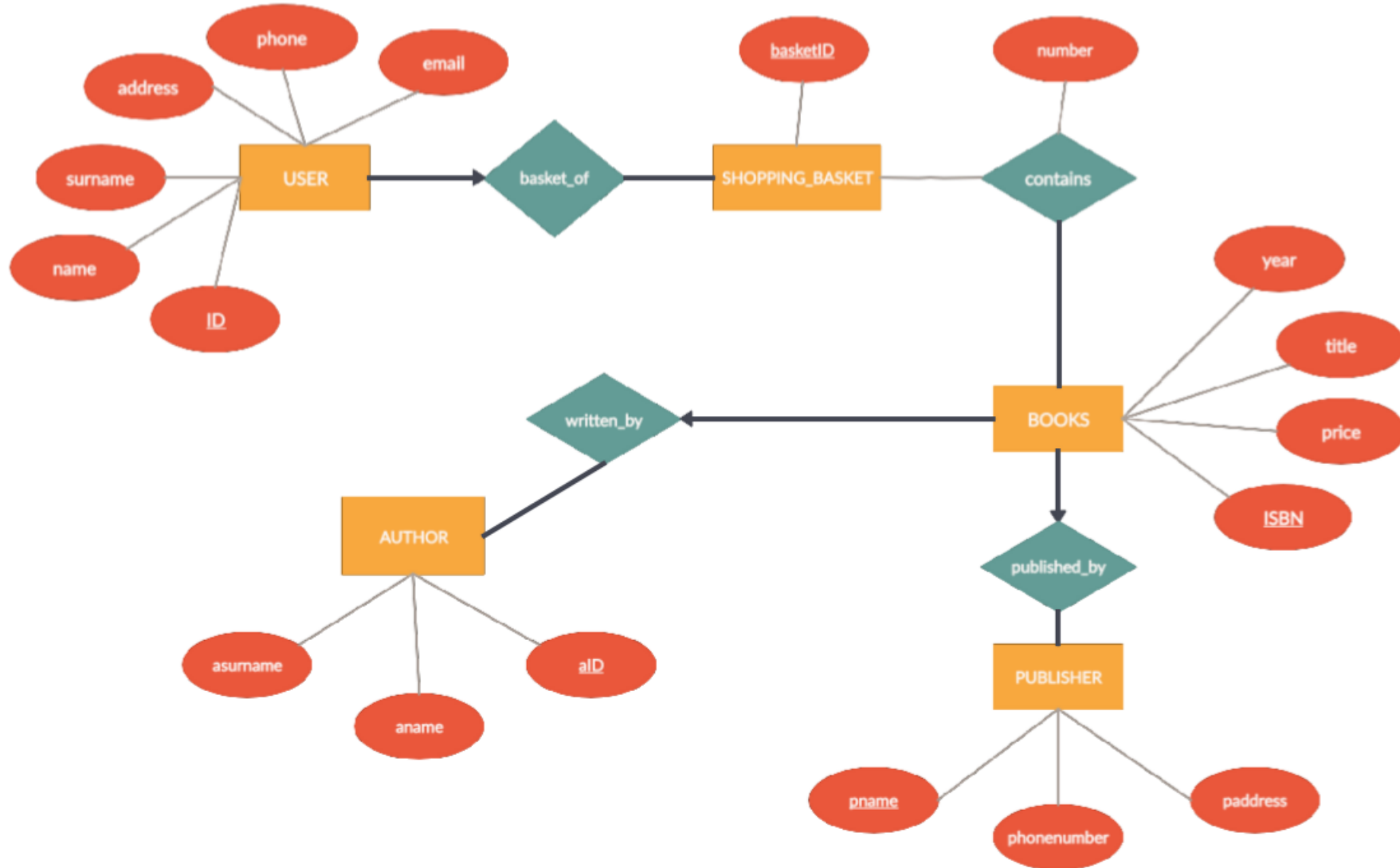
AUTHOR (AID, ANAME , ASURNAME)

PUBLISHER (PNAME , PADDRESS , PHONENUMBER)

SHOPPING_BASKET (BASKETID)

Book Store Database Management System ER Diagram

- ## What is Normalization?

- **NORMALIZATION is a database design technique that organizes tables in a manner that reduces redundancy and dependency of data. Normalization divides larger tables into smaller tables and links them using relationships. The purpose of Normalization is to eliminate redundant (useless) data and ensure data is stored logically.**

- **The inventor of the relational model Edgar Codd proposed the theory of normalization with the introduction of the First Normal Form, and he continued to extend theory with Second and Third Normal Form. Later he joined Raymond F. Boyce to develop the theory of Boyce-Codd Normal Form.**

- **In this tutorial, you will learn-**

- **1NF Rules**

- **2NF Rules**

- **3NF Rules**

- **BCNF (Boyce-Codd Normal Form)**

Database Normal Forms
The Theory of Data Normalization in SQL is still being developed further. For example, there are discussions even on 6th Normal Form. **However, in most practical applications, normalization achieves its best in 3rd Normal Form.** The evolution of Normalization theories is illustrated below-

1st Normal Form	2nd Normal Form	3rd Normal Form	Boyce-Codd NF	4th Normal Form	5th Normal Form	6th Normal Form

TABLES & NORMALIZATION

We applied normalization to our tables to make it compatible with the 3rd normal form and bcnf.

USER

ID	Name	Surname	Address	Phone	Mail		I -> B
							I -> NSAPM
111	Yaren	TUNÇDEMİR	abc	12345	yrn@mail.com		
222	Azra	KAYA	bcd	23456	brfn@mail.com		
333	Aleyna	ÜNLER	dfg	34567	alyn@mail.com		
444	Barış	YILDIRIM	fgh	45678	brs@mail.com		
555	Burak	GÜL	hıj	56789	brk@mail.com		

AUTHOR

aID	Aname	Asurname		A -> ANS
aaa	Orhan	PAMUK		
bbb	Ahmet	ÜMİT		
ccc	Nazım	HİKMET		
ddd	Ayşe	KULİN		

PUBLISHER

PName	Phonenumber	Paddress		P-> PNA
Can Yayınları	101	Adana		
Epsilon	102	Mersin		

SHOPPING_BASKET

basketID		B -> B
202004240001		
202004240002		
202004240003		
202004240004		

BOOKS

ISBN	Price	Title	Year		I -> IPTY
1	10,00		2019		
2	12,00		2018		
3	8,00		2015		
4	20,00		2000		
5	21,5		2004		
6	20		2006		

ISBN	AName	Pname		ISBN	AName		AName	Pname		ISBN is the key
1	Orhan	Can Yayınları		1	Orhan		Orhan	Can Yayınları		I->IAP
2	Ahmet	Epsilon		2	Ahmet		Ahmet	Epsilon		A->P
3	Ayşe	Can Yayınları		3	Ayşe		Ayşe	Can Yayınları		
4	Ahmet	Epsilon		4	Ahmet		Nazım	Epsilon		
5	Ayşe	Can Yayınları		5	Ayşe					
6	Nazım	Epsilon		6	Nazım					

CREATE TABLES

- We created our tables on the Ms SQL platform and made necessary additions to our tables, and with these additions, we developed user login page, book adding sections, adding author sections in our application.

```
CREATE TABLE USER (

ID          INTEGER,

NAME        CHAR(50),

SURNAME   CHAR(50),

ADDRESS   CHAR(50),

PHONE       DOUBLE,

EMAIL       CHAR(50),

BASKETID  INTEGER,

PRIMARY KEY ( ID ),

FOREIGN KEY ( BASKETID ) REFERENCES SHOPPINGBASKET,

ON DELETE CASCADE,

ON UPDATE CASCADE.

)
```

	ID	name	surname	address	phone	email	basketID
►	1	Azra	Kaya	Mardin	05246896534	azra@gmail...	1
	3	Yaren	Tunçdemir	Adana	05426985326	yaren@gma...	2
	4	Aleyna	Ünler	İstanbul	05486953217	aleyna@gm...	3
	5	Barış	Yıldırım	Mersin	05462315689	baris@gmai...	4
	7	Burak	Gül	Adana	05213569878	burak@gma...	5
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

DESKTOP-6EIG429.B...kStore - dbo.USER   DESKTOP-6EIG429....bo.ShoppingBasket   DESKTOP-

CREATE TABLE BOOKS (ISBN   INTEGER,
PRICE   INTEGER,
TITLE   CHAR(50),
YEAR   INTEGER,
AID   INTEGER,
PNAME CHAR(50),
PRIMARY KEY (ISBN),
FOREIGN KEY (AID) REFERENCES AUTHOR,
FOREIGN KEY (PNAME) REFERENCES PUBLISHER,
ON DELETE CASCADE,
ON UPDATE CASCADE
)

	ISBN	price	title	year	aID	pID
▶	1	20	Başucumda ...	2000	1	3
	2	15	Veda	2010	2	4
	3	20	Serenad	2003	3	5
	4	22	Kar	2020	4	6
	5	25	Piraye'ye M...	1970	5	7
	6	20	Çalıkuşu	2002	2	4
	7	30	Öteki Renkler	2004	4	5
	8	10	Sessiz Ev	2005	4	5
	9	22	Atatürk ün İ...	2011	3	6
	10	10	Mutluluk	2005	3	6
*	NULL	NULL	NULL	NULL	NULL	NULL

CREATE TABLE PUBLISHER (
 PID   INTEGER,
PNAME   CHAR (50),
PHONENUMBER   INTEGER,
PADDRESS   CHAR (50),
PRIMARY KEY (PID)
)

DESKTOP-6EIG429....e - dbo.PUBLISHER   DESKTOP-6EIG42

	pID	pname	phonenum...	paddress
▶	3	Can	0545651522	İstanbul
	4	Epsilon	0548623514	Mersin
	5	Pegasus	0546854213	Mardin
	6	Bilgi	0548751236	Mardin
	7	Ykb	0534658781	Adana
	8	Alfa	0486985455	Mardin
*	NULL	NULL	NULL	NULL

CREATE TABLE AUTHOR (
AID   INTEGER,
ANAME   CHAR (50),
ASURNAME   CHAR (50),
PRIMARY KEY(AID)
)

	aID	aname	asurname
▶	1	Kürşat	Başar
	2	Ayşe	Kulin
	3	Zülfü	Livaneli
	4	Orhan	Pamuk
	5	Nazım	Hikmet
*	NULL	NULL	NULL

DESKTOP-6EIG429....tore - dbo.AUTHOR

CREATE TABLE
SHOPPINGBASKET (
BASKETID   INTEGER,
BOOKSID   INTEGER,
PRIMARY KEY(BASKETID)
)

DESKTOP-6EIG429....bo.ShoppingBasket

	basketID	booksID
▶	1	1
	2	2
	3	3
	4	4
	5	5
*	NULL	NULL

INTERFACE DESIGN

What is User Interface (UI) Design?
User interface (UI) design is the process of making interfaces in software or computerized devices with a focus on looks or style. Designers aim to create designs users will find easy to use and pleasurable. UI design typically refers to graphical user interfaces but also includes others, such as voice-controlled ones.

```html
 <!--[if !IE]> -->
    <script src="/Theme/components/jquery/dist/jquery.js"></script>

    <!-- <![endif]-->

    <!--[if IE]>
<script src="/Theme/components/jquery.1x/dist/jquery.js"></script>
<![endif]-->
    <script type="text/javascript">
        if ('ontouchstart' in document.documentElement) document.write("<script
src='/Theme/components/_mod/jquery.mobile.custom/jquery.mobile.custom.js'>" + "<" + "/script>");
    </script>

    <!-- inline scripts related to this page -->
    <script type="text/javascript">
        jQuery(function ($) {
            $(document).on('click', '.toolbar a[data-target]', function (e) {
                e.preventDefault();
                var target = $(this).data('target');
                $('.widget-box.visible').removeClass('visible');//hide others
                $(target).addClass('visible');//show target
            });
        });
```

```javascript
//you don't need this, just used for changing background
        jQuery(function ($) {
            $('#btn-login-dark').on('click', function (e) {
                $('body').attr('class', 'login-layout');
                $('#id-text2').attr('class', 'white');
                $('#id-company-text').attr('class', 'blue');

                e.preventDefault();
            });
            $('#btn-login-light').on('click', function (e) {
                $('body').attr('class', 'login-layout light-login');
                $('#id-text2').attr('class', 'grey');
                $('#id-company-text').attr('class', 'blue');

                e.preventDefault();
            });
            $('#btn-login-blur').on('click', function (e) {
                $('body').attr('class', 'login-layout blur-login');
                $('#id-text2').attr('class', 'white');
                $('#id-company-text').attr('class', 'light-blue');

                e.preventDefault();
            });

        });
```

```javascript
 var textbox = document.getElementById("txtEmail" &&
"txtPassword");
        textbox.addEventListener("keyup", function (event) {
            if (event.keyCode == 13) {
                event.preventDefault();
                document.getElementById("btnLogin").click();
            }
        }



        );
    </script>


</body>
</html>
```

LOGIN PAGE

NEW USER

NEW PASSWORD

BOOK STORE

New User

Enter your details to begin:

Email

Username

Password

Repeat password

Reset   Register →

← Back to login

BOOK STORE

Retrieve Password

Enter your email and to receive instructions

E-Posta

Send Me!

Back to login →

FINALLY PROJECT THEME AND DESIGN

SELECT THEME FONTS

in main title

in subtitle

in paragraph
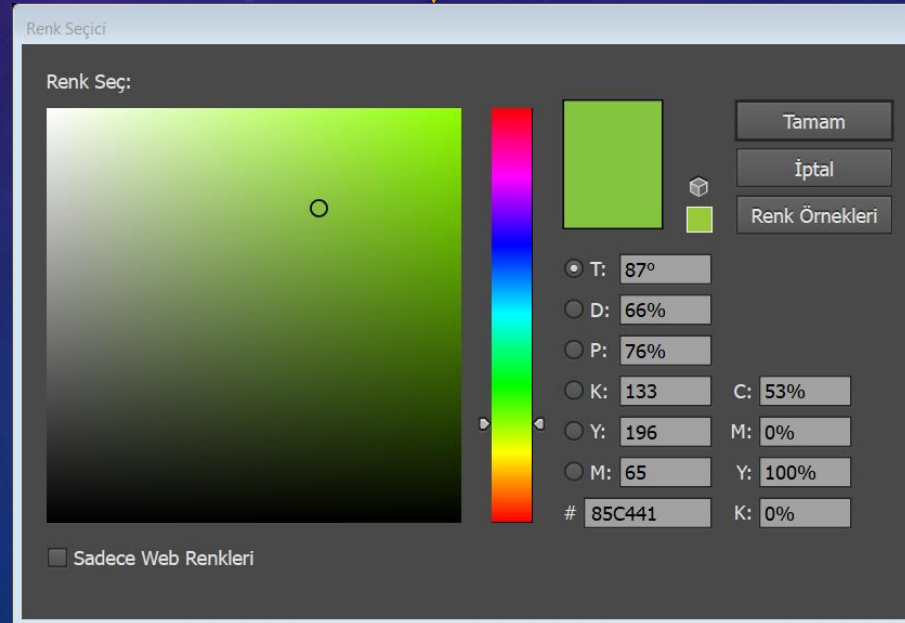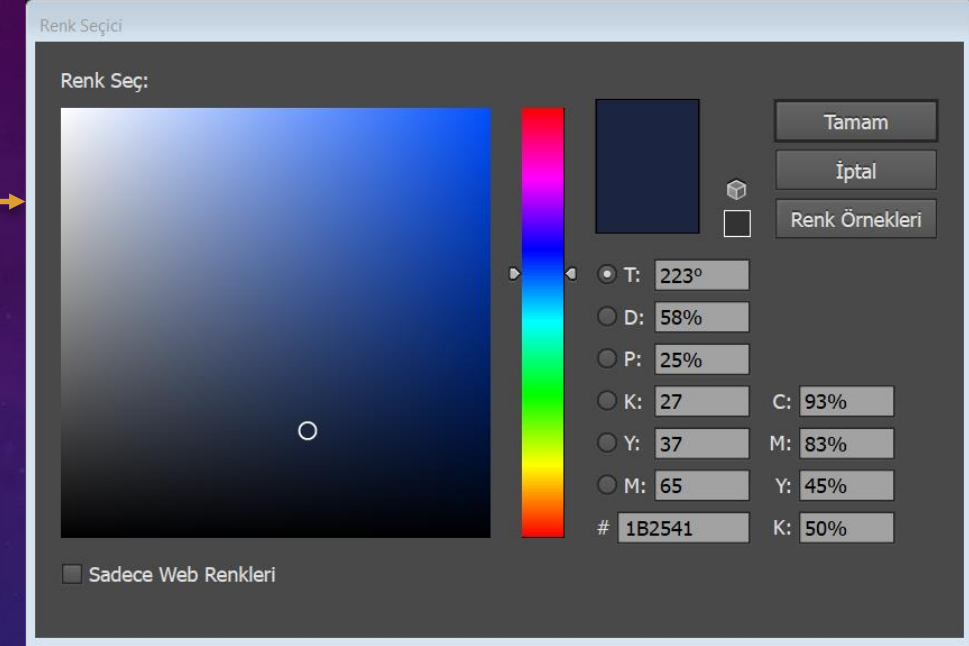
PROJECT DBMS

Book Store Database Management System

ER diagram of a book stock management system is given below.
Books are written by authors & published by the publishers.
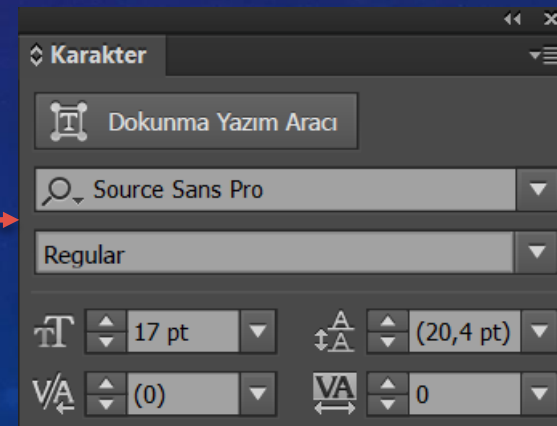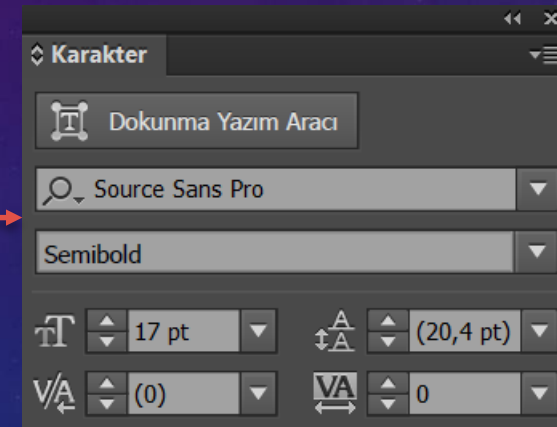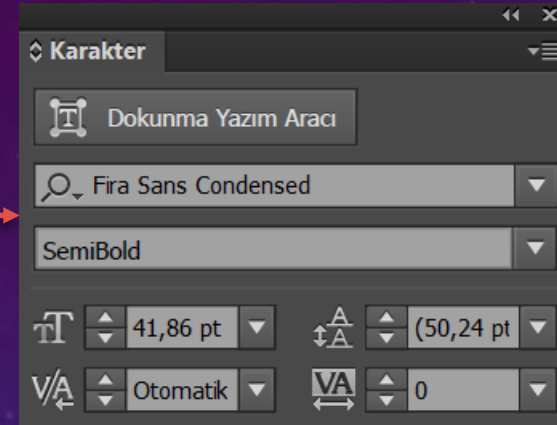Shopping basket contains books. User takes book from shopping basket.
•The bookstore keeps the name, surname, address, email, id, and phone of its users. User is uniquely identified by id. A user owns
several shopping basket. A shopping basket is identified by a basketID and contains several books. Some shopping baskets may contain more than one copy of same book. The database records the number of copies of each book in any shopping basket.

BOOKS

Karakter

Dokunma Yazım Aracı

Fira Sans Condensed

SemiBold

41,86 pt   (50,24 pt)

Otomatik   0

Karakter

Dokunma Yazım Aracı

Source Sans Pro

Semibold

17 pt   (20,4 pt)

(0)   0

Karakter

Dokunma Yazım Aracı

Source Sans Pro

Regular

17 pt   (20,4 pt)

(0)   0

PROGRAMS

Adobe Photoshop CC 20

Adobe Illustrator CC 15