

PROJECT

Bookstore Database System

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CONTINUING EDUCATION PROGRAM CENTER
FOR COMPUTING AND INFORMATION
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PROJECT ON

Bookstore

Developed by

Group : 2

Name

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BOOKSTORE

(Project Title)

Batch Code : 1NAP2

Start Date : September 20, 2017 End Date: October 9, 2017

Name of the Coordinator : Mr. Muhammad Teguh Brillian, S.Kom

Name of Developer :

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Date of Submission : September 20, 2017



CERTIFICATE				
This is to certify that this report titled Bookstore embodies the original work done by Dessy				
Putri Alvini, and Julius Danes Nugroho in partial fulfillment of their course requirement at				
NIIT.				
Coordinator:				
Mr. Muhammad Teguh Brillian, S.Kom				

ACKNOWLEDGEMENT

Writer have benefited a lot from the feedback and suggestions given to us by Mr. Muhammad Teguh Brillian, S.Kom and other faculty members. Writer make this project to fulfill our assignment. Writer said Alhamdulillah to Allah S.W.T because of his blessing, writer can complete this project. Writer know this paper is far from perfection. Writer hope if writer friend and writer faculty give any comment and suggestion to make this paper better than before.

Writer also said thankyou to:

- 1. Our Family who give many support to make this paper completed.
- 2. Mr. Muhammad Teguh Brillian, S.Kom as the guide's lecturer that give put together with the suggestion, idea, and constructive spirit to make this project better.
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If the writer made a mistake in writing the application of this bookstore database. Writer ask forgive to all reader and listener of this paper.

Depok, 20 September 2017

Author

SYSTEM ANALYSIS

System Summary: The book store is a shop that sells books. The book sold is of the				
donations in the donors by the book donors and fund donors, and then in process through				
the staff.				

ENTITIES

Number of entities: 7

Names of entities:				
1.	CUSTOMER			
2.	BOOK			
3.	STAFF			
4.	BOOK DONORS			
5.	FUND DONORS			
6.	TRANSACTION			
7.	TRANSACTION DETAIL			

TABLE DESIGN

Database Name: Bookstore Database System

BOOK

Field Name	Data Type	Description
Book_Code	Short Text	Code of Book (ISBN)
Book_Type	Short Text	Type of Book
Book_Titile	Short Text	Title of Book
Unit_Price	Number	The Price of The Book per One Unit

CUSTOMER

Field Name	Data Type	Description
Cust_Code	Short Text	Nomor Induk Kependudukan (NIK)
Cust_Name	Short Text	Name of Customer

STAFF

Field Name	Data Type	Description
Staff_ID	Short Text	Nomor Induk Pegawai (NIP)
Staff_Name	Short Text	Name of Staff
Position	Short Text	Position of Staff

BOOK_DONORS

Field Name	Data Type	Description
Book_Donors_ID	Short Text	Number ID of Book Donors
Book_Donors_Name	Short Text	Name of Book Donors
Book_Donors_Type	Short Text	Type of Book
Book_Donors_Quantity	Number	Some of The Books
Staff_ID	Short Text	Nomor Induk Pegawai (NIP)

FUND_DONORS

Field Name	Data Type	Description
Fund_Donors_Id	Short Text	Number ID of Fund Donors
Fund_Donors_Name	Short Text	Name of Fund Donors
Fund_Donors_Money	Currency	Many of The Money
Staff_ID	Short Text	Nomor Induk Pegawai (NIP)

TABLE DESIGN

Database Name: Bookstore Database System

TRANSACTION

Field Name	Data Type	Description
Transaction_ID	Short text	Number ID of Transaction
Cust_Name	Short Text	Name of Customer
Staff_Name	Short Text	Name of Staff
Book_Code	Short Text	Code of Book (ISBN)
Book_Type	Short Text	Type of Book
Book_Titile	Short Text	Title of Book

TRANSACTION DETAIL

Field Name	Data Type	Description
Transaction_ID	Short text	Number ID of Transaction
Book_Code	Short Text	Code of Book (ISBN)
Unit_Price	Number	The Price of One Book
Quantity	Number	Quantity of book
Total_Cost	Calculated	Total of Transaction

SPECIAL FIELD PROPERTIES

Database Name: Bookstore Database System

VALIDATION RULE

Entities	Field Name	Value
BOOK	Book_Code	Like "BOOK[0-9][0-9][0-9]"
CUSTOMER	Cust_Code	Like "CUST[0-9][0-9][0-9]"
STAFF	Staff_ID	Like "STA[0-9][0-9][0-9]"
TRANSACTION	Transaction_ID	Like "TRA[0-9][0-9][0-9]"
TRANSACTION DETAIL	Transaction_ID	Like "TRA[0-9][0-9][0-9]"

VALIDATION TEXT

Entities	Field Name	Value
BOOK	Book_Code	Sampel Input "BOOK010"!
CUSTOMER	Cust_Code	Sampel Input "CUST010"!
STAFF	Staff_ID	Sampel Input "STA010"!
TRANSACTION	Transaction_ID	Sampel Input "TRA010"!
TRANSACTION DETAIL	Transaction_ID	Sampel Input "TRA010"!

INPUT MASK

Entities	Field Name	Value
BOOK DONORS	Book_Donors_ID	"BKDNRS"000;;_
FUND DONORS	Fund_Donors_ID	"FNDDNRS"000;;_

CALCULATED

Entities	Field Name	Value
TRANSACTION DETAIL	Total_Cost	=[quantity]*[unit_price]

QUERY USED

Query Name	Query Type	Description	Tables/Queries Used
Query Book	Simple Query	This query describe about Book	Book Code, Book Type, Book Tittle, Unit Price
Query Customer	Simple Query	This query describe about Customer	Cust Code, Cust Name
Query Staff	Simple Query	This query describe about Staff	Staff ID, Staff Name, Staff Position
Query Transaction	Simple Query	This query describe about Transaction	Transaction ID, Cust Name, Staff Name, Book Code, Book Type, Book Tittle
Query Transaction Detail	Simple Query	This query describe about Transaction Detail	Transaction ID, Book Code, Book Type, Book Tittle, Unit Price, Quantity, Total Cost

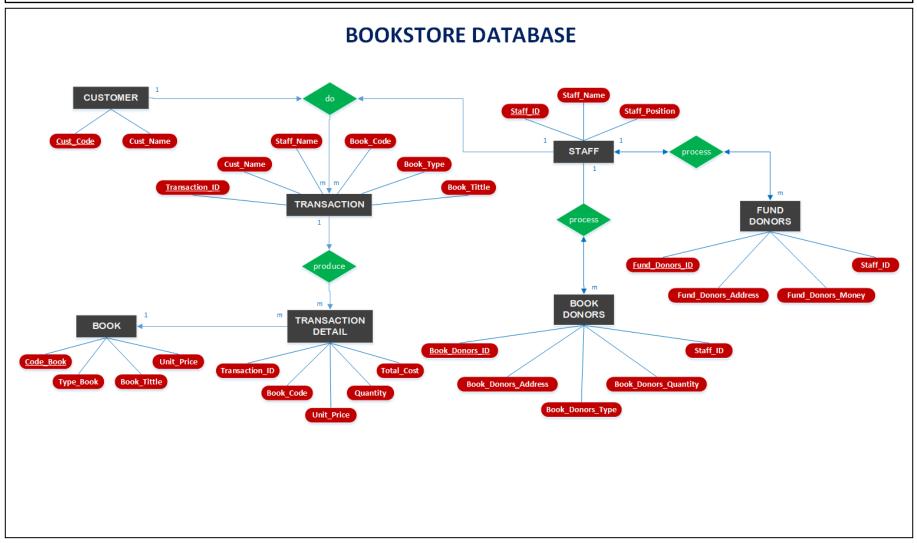
FORM USED

Form Name	Form Type	Description	Tables/Reports Used
Main Menu	Columnar	This form describe about Main Menu	Book, Customer, Book Donors, Fund Donors, Staff, Transaction, Report Book, Report Customer, Report Book Donors, Report Fund Donors, Report Staff, Report Transaction, Report Transaction Detail
BOOK	Columnar	This form describe about Books	Book
CUSTOMER	Columnar	This form describe about Customer	Customer
BOOK DONORS	Columnar	This form describe about Book Donors	Book Donors
FUND DONORS	Columnar	This form describe about Fund Donors	Fund Donors
STAFF	Columnar	This form describe about Staff	Staff
TRANSACTION	Columnar	This form describe about Transaction	Transaction
TRANSACTION DETAIL Subform	Columnar	This subform describe about Detail Transaction	Transaction Detail

REPORTS OUTLINE

Reports Name	Layout	Reports Type	Tables/Queries Used
Report BOOK	Columnar	Table	Book Code, Book Type, Book Tittle, Unit Price
Report CUSTOMER	Columnar	Table	Cust Code, Cust Name
Report BOOK DONORS	Columnar	Table	Book Donors ID, Book Donors Name, Book Donors Type, Book Donors Quantity, Staff ID
Report FUND DONORS	Columnar	Table	Fund Donors ID, Fund Donors Name, Staff ID
Report STAFF	Columnar	Table	Staff ID, Staff Name, Staff Position
Report TRANSACTION	Columnar	Form	Transaction ID, Cust Code, Cust Name, Staff Name, Staff ID, Staff Position
Report TRANSACTION DETAIL	Columnar	Query	Transaction ID, Book Code, Book Type, Book Tittle, Unit Price, Quantity, Total Cost

E/R DIAGRAM



TABLES

Number of Tables: 7

Structure of Tables: The table structures are shown here

BOOKSTORE DATABASE

BOOK [ENTITY]

BOOK

Book_Code

Book_Type

Unit_Price

Book_Tittle

CUSTOMER [ENTITY]

CUSTOMER

Cust_Code

Cust_Name

STAFF [ENTITY]

Staff_ID

Staff_Name

Staff_Position

BOOK DONORS [ENTITY] BOOK DONORS

DOOK DONG

Book_Donors_ID

Book_Donors_Name

Book_Donors_Type

Book Donors Quantity

Staff_ID

FUND DONORS [ENTITY]

FUND DONORS

Fund Donors ID

Fund_Donors_Name

Fund_Donors_Money

 $Staff_ID$

TRANSACTION [ENTITY]

TRANSACTION

Transaction_ID

Cust_Name

Staff_Name

Book_Code

Book_Type

Book_Tittle

TRANSACTION DETAIL [ENTITY]

TRANSACTION DETAIL

Transaction_ID

Book Code

Unit_Price

Quantity

Total Cost

PRIMARY AND FOREIGN KEYS

The Primary and Foreign keys (wherever applicable) for each table are listed with their respective table names:

BOOK

Primary key: Book Code

Foreign keys: -

CUSTOMER

Primary key: Cust_Code

Foreign keys: -

STAFF

Primary key: Staff_ID

Foreign keys: -

BOOK DONORS

Primary key: Book_Donors_ID

Foreign keys: Staff_ID

FUND DONORS

Primary key: Fund Donors ID

Foreign keys: Staff_ID

TRANSACTION

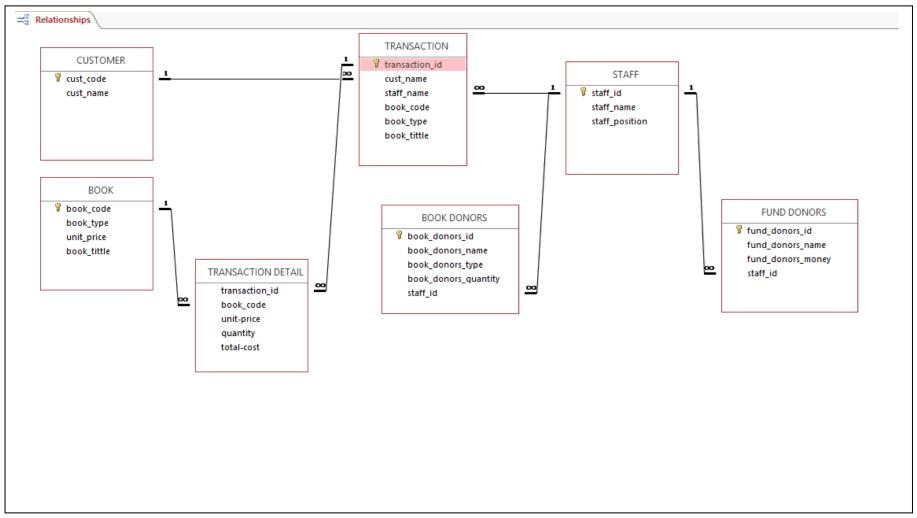
Primary key: <u>Transaction ID</u>
Foreign keys: Book_Code

TRANSACTION DETAIL

Primary key: -

Foreign keys: Book_Code

RELATIONSHIP BETWEEN FINAL TABLES



CONFIGURATION

Hardware: Laptop compatible with an Intel Core i3, 4 GB RAM, 64-bit Operating System, x64-based processor, and 500GB of Hard disk space

Operating System: Microsoft Windows 10 Home

Software: Microsoft Access 2016

PROJECT FILE DETAILS

S. No	File Name	Remarks
1	Bookstore System	Microsoft Office Access 2016 database
	Database.accdb	that contains tables, queries, forms and
		reports