

MIS303 - Access Assignment I (30 pts)

Fall 2018

In this assignment, students need to create a 3-table database for a textbook publishing company.

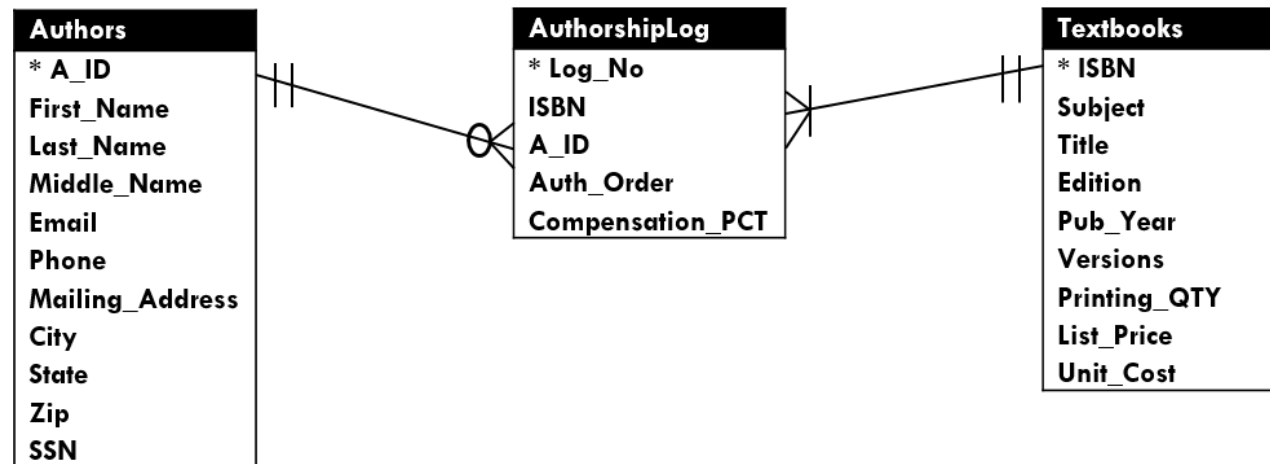
This is an individual assignment. Each student should work by himself or herself. If you have any question, you should contact the instructor for help. Any type of collaboration, help, or consultation between students or from outside of our class is not allowed. Violated parties will receive penalties, including receiving 0 point for this assignment, receiving F in this course, or being reported to the university academic integrity office, etc.

Creating the database with three tables and two relationships

ABCPublish Inc. is a textbook publishing company. You are recently hired by the company to build a database to support their data management. The major business operations that your database should support include author management and book version management. Three entities have been identified from the business operations. They are **Authors**, **AuthorshipLog**, and **Textbooks**. Create a database using **Access 2016**, and name it **ABCPublish-FirstnameLastname**. Please note that you should include your own first name and last name in the database file name.

Data Model / Entity Relationship Diagram

Here is the entity relationship diagram that shows the data model of this database. It describes how the three entities related. Your database should be created following this data model.



Field Requirements

Here are more field information for each entity/table, including data type and other rules you should apply on the fields.

Table: Authors		
Fields	Data Type	Other Rules
A_ID	Short Text	Holds 4-character ID code that starts with letter A and followed by 3-digit number; Primary key
First_Name	Short Text	No more than 30 characters long
Last_Name	Short Text	No more than 30 characters long
Middle_Name	Short Text	No more than 30 characters long
Email	Short Text	Required
Phone	Short Text	Shows in the form like (xxx) xxx-xxxx
Mailing_Address	Short Text	
City	Short Text	
State	Short Text	
Zip	Short Text	Shows with 5-digit zip code like xxxxx
SSN	Short Text	Shows in the form like xxx-xx-xxxx

Table: Textbooks		
Fields	Data Type	Other Rules
ISBN	Short Text	Holds 13-digit number; Primary key
Subject	Short Text	
Title	Short Text	
Edition	Number	Integer number, e.g., 1 st edition should have value 1, 2 nd edition is 2, etc.
Pub_Year	Short Text	4-digit year number
Versions	Short Text	Holds a 4-character code. Code options are: HCUS – hardcover US version; SCUS – softcover US version; ITNL – International version; EBKS – e-books. **
Print_QTY	Number	Long integer number; this field stores values for total copies printed
List_Price	Currency	Holds a number with two decimal places
Unit_Cost	Currency	Holds a number with two decimal places

** Note: For the field of Versions, to set code options is a little challenge, as we didn't cover it in class. Give it a try and see if you can figure it out. Otherwise, feel free to ask me or the TAs for help.

Note: For the next table, you will import the authorship log data from a spreadsheet. But during or after the import process, you need to make sure your field names, data types and other rules meet what described here.

Table: AuthorshipLog		
Fields	Data Type	Other Rules
Log_No	Short Text	Primary key
ISBN	Short Text	
A_ID	Short Text	
Auth_Order	Number	Integer number. E.g., First author should have value 1, 2 nd author is 2, etc.
Compensation_PCT	Number	Double number to hold the percentage rate that an author can get from the book sales profit.

Data Records

Here are the records you should enter into the **Authors**, and **Textbooks** tables. You should also import data from **Authorship.xlsx** (find and download this file from the Blackboard assignment link) to make the **AuthorshipLog** table.

Table: Textbooks

ISBN	Subject	Title	Edition	Pub_Year	Versions	Print_QTY	List_Price	Unit_Cost
9781305272040	Networks	Data Communications and Computer Networks, A Business User's Approach	8	2014	HCUS	100000	\$145.00	\$75.00
9780134611037	Programming	Introduction to Java Programming, Brief Version	11	2018	SCUS	50000	\$120.00	\$63.00
9780073402987	MIS	Business Driven Information Systems	5	2014	SCUS	75000	\$137.00	\$70.00
9781259289866	MIS	Business Driven Technology	6	2014	EBKS	80600	\$89.00	\$18.00

Table: Authors

A_ID	First_Name	Last_Name	Midd	Email	Phone	Mailing_Address	City	State	Zip	SSN
A001	Paige	Baltzan		baltzan@du.edu	(303) 871-3996	2101 S. University Blvd.	Denver	CO	80208	123-45-6789
A002	Amy	Phillips		aphillips@gmail.com	(738) 290-0101	123 Main street	Los Angeles	CA	84837	234-56-7891
A003	Stephen	Haag		haag@du.edu	(303) 871-2596	2101 S. Univeristy Blvd.	Denver	CO	80208	345-67-8912
A004	Daniel	Liang	Y.	y.daniel.liang@gmail.com	(912) 344-3264	11935 Abercorn Street	Savannah	GA	31419	456-78-9123
A005	Curt	White	M.	cwhite@cs.depaul.edu	(312) 362-5175	1 E. Jackson Blvd.	Chicago	IL	60604	567-89-1234

Your Tasks in this Assignment

1. Create a new database, and name it **ABCPublish-FirstnameLastname**. Save it onto your computer.
2. In this database, create two tables (**Authors** and **Textbooks**) from scratch, using the field information and data records provided above.
3. Import the third table – **AuthorshipLog** from the spreadsheet file provided.
4. Create a relationship board with all three tables and two relationships. Your completed relationship board should look similar like the data model on Page 1 of this instruction document (symbols would be slightly different though).

Submission:

Make sure you close the database file on your computer before you upload it to the Blackboard submission link. Otherwise, you may upload an incorrect or un-openable file.