Marking Summary CMPT 310 - Lab 5

asafari

CMPT 310:
Laboratory 5

Books & DB Normalization

SQL DDL

CREATE Tables

Primary Key Constraints

Foreign Key Constraints

15BN

Title/Name

Author/Pub ID

Date

Lead Author

Position

SQL DML

DROP Tables

INSERT Statements

Books & DB Normalization

5

/5

/5

/5

/6

/6

TOTAL

Docker Messages [UP]

Starting Docker Containers...

Creating network "asafari_default" with the default driver

Creating empt310_db ...

Creating empt310_db ... done

Creating empt310_www ...

Creating empt310_www ...

done

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Your Output

•
lab5.sql Tests
Test #0
Importing lab5.sql
Creating clean schema
mysql> DROP SCHEMA IF EXISTS Lab5;
mysql> CREATE SCHEMA Lab5;
Importing lab5.sql
mysql> SOURCE lab5.sql
Tables
mysql> SHOW TABLES;
+
Tables_in_Lab5
++
Author
Authorship
Book
Publisher
Volume
++
Describing Tables

Table: Author

mysql> DESCRIBE Author;

Field	Type	Null	Key	Default	Extra
ID Name	decimal(4,0) varchar(25)	NO NO	PRI	NULL NULL	

mysql> SELECT COUNT(*) AS 'Author Rows' FROM Author;

Author Rows

Table: Authorship

mysql> DESCRIBE Authorship;

Field	Туре	Null	Key	Default	Extra
Book_ISBN Author_ID RoyaltyPercent LeadAuthor Position	decimal(13,0) decimal(4,0) decimal(3,2) varchar(25) int	NO NO NO NO NO NO	PRI PRI	NULL NULL NULL NULL	

mysql> SELECT COUNT(*) AS 'Authorship Rows' FROM Authorship;

Authorship Rows

CMPT 310 - Lab 5 asafari Your Output CMPT 310

Table: Book

mysql> DESCRIBE Book;

Field	Type	Null	Key	Default	Extra
ISBN	decimal(13,0)	NO	PRI	NULL	i i
Title	varchar (25)	NO		NULL	
Publisher_Date	date	NO		NULL	į į
Publisher_ID	decimal(4,0)	NO	MUL	NULL	į į
+	·	+		·	++

mysql> SELECT COUNT(*) AS 'Book Rows' FROM Book;

1	Book Rows	
+	+	
1	0	

Table: Publisher

mysql> DESCRIBE Publisher;

++												
Field Type	Null	Key	Default Ext	ra								
+	+	·	·	+								
ID decimal(4,0)	NO	PRI	NULL									
Nane varchar(25)	NO		NULL									
+				+								

mysql> SELECT COUNT(*) AS 'Publisher Rows' FROM Publisher;

Publisher Rows

Table: Volume

mysql> DESCRIBE Volume;

+	+	+	+	+	++
Field	Type	Null	Key	Default	Extra
+	+	+	+	+	++
Series_Book_ISBN	decimal(13,0)	NO	PRI	NULL	1 1
Volume_Book_ISBN	decimal(13,0)	NO	PRI	NULL	
Position	decimal(2,0)	YES	ĺ	NULL	i i
+	+	+	+	+	++

mysql> SELECT COUNT(*) AS 'Volume Rows' FROM Volume;

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ERROR 1054 (42822) at line 1 in file: 'QueryTable.agl': Unknown column 'Publisher.Name' in 'field list' 1,1040

< 4		+		+	+	+		+	+		+	+	++
<	PublisherID	PublisherName	SeriesISBN	SeriesTitle	SeriesPosition	ISBN	Title	PublishDate	AuthorID	AuthorName	DateOfBirth	RoyaltyPercent LeadAuthor	AuthorPosition
< +		+	·	+	+	+		+	+		+	+	++
<	10001	HarperCollins	NULL	NULL			The Chronicles of Narnia	2007-08-14		C. S. Lewis	1898-11-29	20.0 Y	1
<	10001	HarperCollins	NULL	NULL	NULL	9780007525515	The Hobbit & The Lord of the Rings	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	5.0 Y	1
<	10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	1	9780261102217	The Hobbit	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	3.0 Y	1
<	10002	Pearson	NULL	NULL			Modern Database Management (12th Edition)			Jeffery A. Hoffer	1970-01-01	10.0 Y	1
<	10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1005	V. Ramesh	1971-01-01	2.0 N	2
<	10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1006	Heikki Topi	1972-01-01	2.0 N	3
< 4		+		+	+	+		+			+	+	+

Querying DB for imported books

ERROR 1054 (42S22) at line 1 in file: 'QueryTable.sql': Unknown column 'Publisher.Name' in 'field list' 1,10d0

<	+	+	+	+	+		+	+	+			+	+
<	PublisherID	PublisherName	SeriesISBN	SeriesTitle	SeriesPosition	ISBN	Title	PublishDate	AuthorID	AuthorName	DateOfBirth	RoyaltyPercent LeadAuthor	AuthorPosition
<	+	+	+	+	+		+	+	·			++	+
<	10001	HarperCollins	NULL	NULL			The Chronicles of Narnia	2007-08-14		C. S. Lewis	1898-11-29	20.0 Y	1
<	10001	HarperCollins	NULL	NULL	NULL	9780007525515	The Hobbit & The Lord of the Rings	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	5.0 Y	1
<	10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	1	9780261102217	The Hobbit	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	3.0 Y	1
<	10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1004	Jeffery A. Hoffer	1970-01-01	10.0 Y	1
<	10002	Pearson	NULL	NULL			Modern Database Management (12th Edition)		1005	V. Ramesh	1971-01-01	2.0 N	2
<	10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1006	Heikki Topi	1972-01-01	2.0 N	3
<	+	+	+	+	+		+	+				+	+

Test #3

Importing ALL the books...

mysql> SOURCE InsertEverything.sql ERROR 1054 (42822) at line 1 in file: 'InsertEverything.sql': Unknown column 'DateOfBirth' in 'field list' ERROR 1054 (42822) at line 1 in file: 'QueryTable.sql': Unknown column 'Publisher.Name' in 'field list' 1,34d0

	PublisherName	SeriesISBN	SeriesTitle	SeriesPosition		Title	PublishDate				RoyaltyPercent		
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	1003		1980-01-01	NULL	NULL	NULL
10001	HarperCollins	NULL	NULL	NULL	9780060244880	The Chronicles of Narnia	2007-08-14	1001	C. S. Lewis	1898-11-29	20.0		1
10001	HarperCollins	NULL	NULL	NULL	9780060598242	The Chronicles of Narnia	2004-10-26		C. S. Lewis	1898-11-29	12.0		1
10001	HarperCollins	NULL	NULL	NULL	9780007525515	The Hobbit & The Lord of the Rings	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	5.0	Y	1
10001	HarperCollins	NULL	NULL	NULL	9780261102385	The Lord of the Rings	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.6	Y	1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	1	9780060234973	The Magician's Nephew	2007-08-14		C. S. Lewis	1898-11-29	15.0	Y	1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	2	9780060234812	The Lion, the Witch and the Wardrobe	2007-08-14	1001	C. S. Lewis	1898-11-29	15.0		1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	3	9780060234881	The Horse and His Boy	2007-08-14	1001	C. S. Lewis	1898-11-29	15.0	Y	1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	4	9780060234836	Prince Caspian	2007-08-14		C. S. Lewis	1898-11-29	15.0		1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	5	9780060234867	The Voyage of the Dawn Treader	2007-08-14	1001	C. S. Lewis	1898-11-29	15.0	Y	1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	6	9780060234959	The Silver Chair	2007-08-14	1001	C. S. Lewis	1898-11-29	15.0	Y	1
10001	HarperCollins	9780060244880	The Chronicles of Narnia	7	9780060234935	The Last Battle	2007-08-14	1001	C. S. Lewis	1898-11-29	15.0	Y	1
10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	1	9780261102217	The Hobbit	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	3.0	Y	1
10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	2	9780261102354	The Fellowship of the Ring	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.2	Y	1
10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	3	9780261102361	The Two Towers	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.3	Y	1
10001	HarperCollins	9780007525515	The Hobbit & The Lord of the Rings	4	9780261102378	Return of the King	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.4	Y	1
10001	HarperCollins	9780261102385	The Lord of the Rings	1	9780261102354	The Fellowship of the Ring	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.2	Y	1
10001	HarperCollins	9780261102385	The Lord of the Rings	2	9780261102361	The Two Towers	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.3	Y	1
10001	HarperCollins	9780261102385	The Lord of the Rings	3	9780261102378	Return of the King	2007-04-17	1000	J. R. R. Tolkien	1892-01-03	1.4	Y	1
10000	Houghton Mifflin Harcourt	NULL	NULL	NULL	9780012345678	A New Series	2020-01-01	1002	Erez Osiris	1990-01-01	0.0	Y	1
10000	Houghton Mifflin Harcourt	NULL	NULL	NULL	9780618968633	The Hobbit	2007-09-21	1000	J. R. R. Tolkien	1892-01-03	1.5	Y	1
10002	Pearson	NULL	NULL	NULL	9780133970777	Fundamentals of Database Systems (7th Edition)	2015-06-08	1007	Ramez Elmasri	1973-01-01	5.0	N	1
10002	Pearson	NULL	NULL	NULL	9780133970777	Fundamentals of Database Systems (7th Edition)	2015-06-08	1008	Shamkant B. Navathe	1974-01-01	5.0	Y	2
10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1004	Jeffery A. Hoffer	1970-01-01	10.0	Y	1
10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1005	V. Ramesh	1971-01-01	2.0	N	2
10002	Pearson	NULL	NULL	NULL	9780133544619	Modern Database Management (12th Edition)	2015-07-13	1006	Heikki Topi	1972-01-01	2.0	N	3
10003	Scribner	NULL	NULL	NULL	9781451664829	The Space Trilogy	2011-09-20		C. S. Lewis	1898-11-29	20.0		1
10003	Scribner	9781451664829	The Space Trilogy	1	9780743234900	Out of the Silent Planet	1996-10-01	1001	C. S. Lewis	1898-11-29	5.0	Y	1
10003	Scribner	9781451664829	The Space Trilogy	2	9780743234917	Perelandra	1996-10-01	1001	C. S. Lewis	1898-11-29	5.0	Y	1
10003	Scribner	9781451664829	The Space Trilogy	3	9780743234924	That Hideous Strength	1996-10-01	1001	C. S. Lewis	1898-11-29	5.0	Y	1

Test #4 Checking the DROP TABLE STATEMENT (ORDER)

Dropping and Recreating Tables ...

DROP TABLE IF EXISTS 'Volume', 'Authorship', 'Book', 'Author', 'Publisher';

Docker Messages [DOWN]

CMPT 310 - Lab 5 asafari

Stopping Docker Containers...
Stopping cmpt:10, www...
Stopping cmpt:10, io.
Stopping cmpt:10, io.
Stopping cmpt:10, www...
done
Stopping cmpt:10, www...
Removing cmpt:10, www...
Removing cmpt:10, www...
Removing cmpt:10, io.
Removing cmpt:10, io.
Removing cmpt:10, io.
Removing cmpt:10, io.
Removing network asafari_default
Removing image asafari_www

FRANKLIN SAFARI YOUR ID HERE		
lab5.sql		
The purpose of these labs is to gain experience normalizing a poorly structured database from a single INF relation into many well structured 3NF relations. You started with an INF table and have been provided a set of 3NF relations. You task is to create the 3NF database relations using SQL DOL statements and to populate the relations with sample data from the table using SQL DML statements.		
To execute your script: \$> mysqllogin-path-Lab5 Lab5 < lab5.sql		
DROP TABLE IF EXISTS 'Volume', 'Authorship', 'Book', 'Author', 'Publisher';		
- TABLE PUBLISHER		
CREATE TABLE 'Publisher'('ID' NUMERIC(4,0) NOT NULL, 'Name' YARCHAR(25) NOT NULL, CONSTRAINT PUBLISHER_PK PRIMARY KEY ('ID'));		
Name too 5 mall (-1)		
AUTHOR TABLE		
CREATE TABLE 'Author'('ID' NUMERIC(4,0) NOT NULL, 'Name' VARCHAR(25) NOT NULL, CONSTRAINT AUTHORY KEY ('ID'));		
BOOKS TABLE		
CREATE TABLE 'Book'('ISBN' NUMERIC(13,0) NOT NULL, 'Title' 'Publisher_Date' DATE: NOT NULL, 'Publisher_ID' NUMERIC(10,0) NOT NULL, CONSTRAINT BOOKS_FR FOREIGN KBY ('Yablisher_ID') REFERENCES 'Publisher' ('ID'));		
fittle toos mall		
AUTHORSHIP TABLE		
CREATE TABLE 'Authorship'('Book_ISBN' NUMERIC(13,0) NOT NULL, 'Author_ID' NUMERIC(4,0) NOT NULL, 'Author_ID' NUMERIC(4,0) NOT NULL, 'LeadAuthor' VARCHAR(25) NOT NULL, 'Position' IT NOT NULL, 'CONSTRAINT AUTHORSHIP_FK FOMERIC KEY ('Book_ISBN') REFERENCES 'Book' ('ISBN'), CONSTRAINT AUTHORSHIP_FK FOMERIC KEY ('Book_ISBN') REFERENCES 'Book' ('ISBN'), CONSTRAINT AUTHORSHIP_FKZ FORIGN KEY ('NUMERIC ID') REFERENCES 'Author' ('ID'));		
Ishould be something	like	bal
TABLE VOLUME		
CREATE TABLE 'Volume'('Series_Book_ISBN' NUMERIC(13,0) NOT NULL, 'Volume_Book_ISBN' NUMERIC(13,0) NOT NULL, 'Position' NUMERIC(2,0) NULL,		

FOSTITUTE NOTIFICATION OF THE NOTIFICATION OF

1. Source (lab5.sql)