Bookstore MySQL Submission Document

for

Group cxc55311
COMP 5531, Warmup Project

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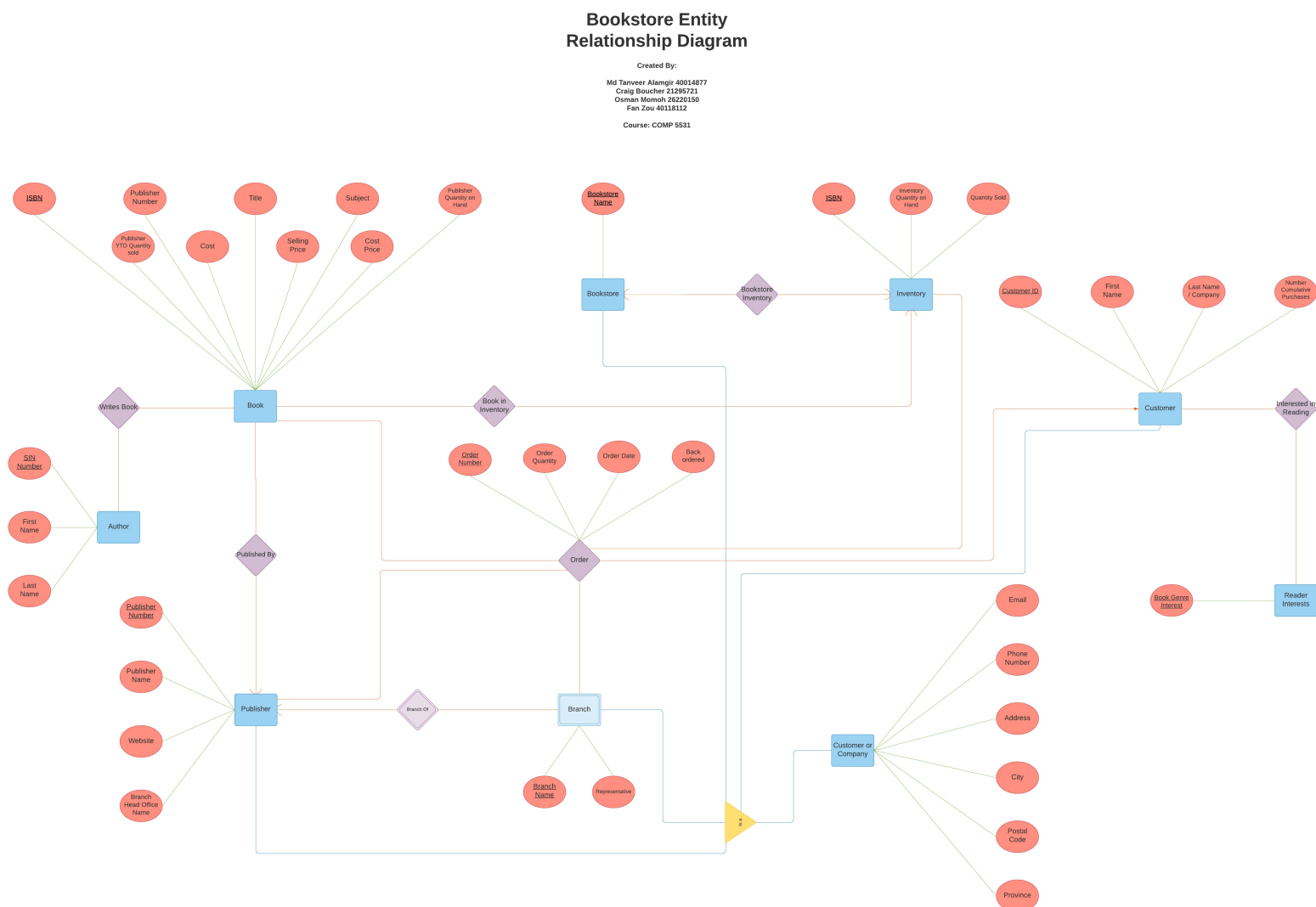# Contents

1 Introduction

This is the submission document for the warmup project in COMP 5531: Files and Databases in Concordia University. This document describes the MySQL database for a hypothetical bookstore which our group designed and implemented. This document also shows the resultant tuples generated from ten SQL queries. The requirements in this document are shown in a website which our group designed located at: https://cxc5531.encs.concordia.ca. This website uses HTML, CSS, PHP, and JavaScript in order to access the MySQL database and visualize both the tables and the results of the ten SQL queries.

2 Entity Relationship Diagram

We made our Entity relationship diagram(ERD) using LucidChart. Our ERD is a conceptual model which we use in the course.

Bookstore Entity Relationship Diagram

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Course: COMP 5531

3 SQL Statements to Create Database

These are the SQL statements which we used to create the tables in our database.

```
CREATE TABLE Publisher (
      PublisherNumber VARCHAR(20),
      PublisherName VARCHAR(100),
      Website VARCHAR(100),
      HeadOfficeName VARCHAR(100),
      Email VARCHAR(100),
      PhoneNumber VARCHAR(100),
      Address VARCHAR(100),
      City VARCHAR(100),
      PostalCode VARCHAR(100),
      Province VARCHAR(100),
      PRIMARY KEY (PublisherNumber)
);
CREATE TABLE Publisher_Branch (
      PublisherNumber VARCHAR(20),
      BranchName VARCHAR(100),
      Representative VARCHAR(100) NOT NULL,
      PRIMARY KEY (PublisherNumber, BranchName),
      FOREIGN KEY (PublisherNumber) REFERENCES Publisher (PublisherNum-
      ber) ON DELETE CASCADE
);
CREATE TABLE Bookstore (
      BookstoreName VARCHAR(100),
      Email VARCHAR(100),
      PhoneNumber VARCHAR(100),
      Address VARCHAR(100),
      City VARCHAR(100),
      PostalCode VARCHAR(100),
      Province VARCHAR(100),
      PRIMARY KEY (BookstoreName)
);
CREATE TABLE Customer (
      CustomerID VARCHAR(20),
      FirstName VARCHAR(100) NOT NULL,
      LastName VARCHAR(100) NOT NULL,
```

```
        CompanyName VARCHAR(100),
        PhoneNumber VARCHAR(100),
        Address VARCHAR(100),
        City VARCHAR(100),
        PostalCode VARCHAR(100),
        Province VARCHAR(100),
        CumulativePurchaseNumber INT,
        PRIMARY KEY (CustomerID)
);
CREATE TABLE Book (
        ISBN VARCHAR(20),
        Title VARCHAR(100) NOT NULL,
        Subject VARCHAR(100),
        CostPrice DOUBLE,
        SellingPrice DOUBLE,
        PublisherNumber VARCHAR(20),
        PublisherYtdQtySold INT,
        PublisherQtyOnHand INT,
        PRIMARY KEY (ISBN),
        FOREIGN KEY (PublisherNumber) REFERENCES Publisher (PublisherNum-
        ber) ON DELETE SET NULL
);
CREATE TABLE Author (
        SIN VARCHAR(20),
        FirstName VARCHAR(100),
        LastName VARCHAR(100),
        PRIMARY KEY (SIN)
);
CREATE TABLE Book_Author (
        ISBN VARCHAR(20),
        SIN VARCHAR(20),
        PRIMARY KEY (ISBN, SIN),
        FOREIGN KEY (ISBN) REFERENCES Book (ISBN),
        FOREIGN KEY (SIN) REFERENCES Author (SIN)
);
CREATE TABLE Reader_Interest (
        CustomerID VARCHAR(20),
        BookGenreInterest VARCHAR(100),
        PRIMARY KEY (CustomerID, BookGenreInterest),
        FOREIGN KEY (CustomerID) REFERENCES Customer (CustomerID) ON DELETE
        CASCADE
);
CREATE TABLE Inventory (
        ISBN VARCHAR(20),
```

```sql
        BookstoreName VARCHAR(100),
        QtySold INT,
        QtyOnHand INT,
        PRIMARY KEY (ISBN, BookstoreName),
        FOREIGN KEY (ISBN) REFERENCES Book (ISBN),
        FOREIGN KEY (BookstoreName) REFERENCES Bookstore (BookstoreName)
        ON DELETE CASCADE
);
CREATE TABLE BookOrder (
        OrderNumber VARCHAR(20),
        OrderQty INT,
        OrderDate DATE,
        PRIMARY KEY (OrderNumber)
);
CREATE TABLE CustomerBookstoreOrder (
        OrderNumber VARCHAR(20),
        ISBN VARCHAR(20),
        BookstoreName VARCHAR(100),
        CustomerID VARCHAR(20),
        BackOrder BOOL,
        PRIMARY KEY (OrderNumber, ISBN, BookstoreName),
        FOREIGN KEY (OrderNumber) REFERENCES BookOrder (OrderNumber) ON
        DELETE CASCADE,
        FOREIGN KEY (ISBN) REFERENCES Inventory (ISBN),
        FOREIGN KEY (BookstoreName) REFERENCES Inventory (BookStoreName)
        FOREIGN KEY (CustomerID) REFERENCES Customer (CustomerID)
);
CREATE TABLE PublisherBookstoreOrder (
        OrderNumber VARCHAR(20),
        ISBN VARCHAR(20),
        BookstoreName VARCHAR(100),
        PublisherNumber VARCHAR(20),
        BranchName VARCHAR(100),
        BackOrder BOOL,
        PRIMARY KEY (OrderNumber, ISBN, BookstoreName),
        FOREIGN KEY (OrderNumber) REFERENCES BookOrder (OrderNumber) ON
        DELETE CASCADE,
        FOREIGN KEY (ISBN) REFERENCES Inventory (ISBN),
        FOREIGN KEY (BookstoreName) REFERENCES Inventory (BookStoreName),
        FOREIGN KEY (PublisherNumber, BranchName) REFERENCES Publisher_-
        Branch (PublisherNumber, BranchName)
);
```

4 SQL Statements to Express Queries

We thought of ten SQL query statements which are used to express the required queries in this project. We also included links in our website to view the resulting tuples

4.1 Get details of all books in stock

SELECT b.*, i.BookstoreName, i.QtySold, i.QtyOnHand, p.PublisherName
FROM Book AS b, Inventory AS i, Publisher as p
WHERE b.ISBN = i.ISBN AND b.PublisherNumber = p.PublisherNumber AND QtyOnHand > 0

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=1

4.2 Get details of all back orders

SELECT DISTINCT(BO.OrderNumber), BO. OrderQty, BO.OrderDate, CO.BackOrder
AS CustomerBackOrder, PO.BackOrder AS PublisherBackOrder
FROM BookOrder AS BO, CustomerBookstoreOrder As CO, PublisherBookstoreOrder
as PO
WHERE ((BO.OrderNumber = CO.OrderNumber AND CO.BackOrder = true) OR
(BO.OrderNumber = PO.OrderNumber AND PO.BackOrder = true)) AND (PO.BackOrder
!= CO.BackOrder);

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=2

4.3 For a given customer, get details of all his/her back orders

SELECT bo.*, cb.ISBN, b.Title AS 'Book Title', b.Subject AS 'Book Subject', cb.BookstoreName,
c.CustomerID, c.FirstName AS 'Cus. First Name', c.LastName AS 'Cus. Last Name'
FROM BookOrder AS bo, CustomerBookstoreOrder AS cb, Customer AS c, Book AS
b
WHERE cb.OrderNumber = bo.OrderNumber AND cb.ISBN = b.ISBN AND cb.CustomerID
= c.CustomerID
AND c.FirstName = 'Alice' AND c.LastName = 'Mo' AND cb.BackOrder

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=3

4.4 For a given customer, get details of all his/her purchases made during a specific period of time

SELECT bo.*, cb.ISBN, cb.BookstoreName, b.Title AS 'Book Title', b.Subject AS 'Book Subject', c.CustomerID, c.FirstName AS 'Cus. First Name', c.LastName AS 'Cus. Last Name', CASE
WHEN cb.BackOrder THEN 'Back Ordered' ELSE 'Not Back Ordered' END AS 'Back Order'
FROM Book AS b, CustomerBookstoreOrder AS cb, Customer AS c, BookOrder AS bo
WHERE cb.OrderNumber = bo.OrderNumber AND cb.CustomerID = c.CustomerID AND cb.ISBN = b.ISBN AND bo.OrderDate BETWEEN '2020-01-01' AND '2020-07-01' AND c.FirstName = 'Alice' AND c.LastName = 'Mo'

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=4

4.5 Give a report of sales during a specific period of time

SELECT *
FROM BookOrder AS B, CustomerBookstoreOrder AS CBO, Customer AS C WHERE B.OrderNumber = CBO.OrderNumber
AND CBO.CustomerID = C.CustomerID AND (NOT CBO.BackOrder) AND (B.OrderDate BETWEEN '2020-01-01' AND '2020-07-01');

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=5

4.6 Find the title of book(s) that have the highest back-order

SELECT DISTINCT Book.ISBN, Book.Title, MAX(BO.OrderQty) AS QuantityBack-Ordered
FROM Book, BookOrder AS BO, CustomerBookstoreOrder as CO, PublisherBookstoreOrder as PO
WHERE ((BO.OrderNumber = CO.OrderNumber AND Book.ISBN = CO.ISBN AND CO.BackOrder = true) OR (BO.OrderNumber = PO.OrderNumber AND Book.ISBN = PO.ISBN AND PO.BackOrder = true)) AND (CO.BackOrder = true XOR PO.BackOrder = true)

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=6

4.7 Give details of books that are supplied by a given publisher

SELECT *
FROM Book AS B, Publisher AS P

WHERE B.PublisherNumber = P.PublisherNumber AND P.PublisherName = 'OŔEILLY'

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=7

4.8 For a given publisher, get details of the head office and all the branches for that publisher

SELECT *
FROM Publisher, Publisher_Branch
WHERE Publisher.PublisherNumber = Publisher_Branch.PublisherNumber AND Publisher.PublisherName = 'OŔEILLY'

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=8

4.9 Get details of books that are in the inventory but there have never been a purchase for that specific book

SELECT B.ISBN, Title, Subject, PublisherNumber
FROM Inventory AS I, Book AS B
WHERE B.ISBN = I.ISBN AND I.QtySold = 0;

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=9

4.10 Get details of all books that are in the inventory for a given author

SELECT A.SIN, A.FirstName, A.LastName, B.*, I.QtyOnHand, I.QtySold
FROM Book AS B, Author AS A, Inventory AS I, Book_Author AS BA
WHERE B.ISBN = BA.ISBN AND BA.SIN = A.SIN AND B.ISBN = I.ISBN AND A.FirstName = 'Henry' AND A.LastName = 'Korth';

link: https://cxc5531.encs.concordia.ca/php/controller.php?question=10

5 SQL Statements to Populate Tables

We populated our tables with several tuples such that each query would result in at least two representative tuples. Here are those insert statements.

INSERT INTO Publisher (PublisherNumber, PublisherName, Website, HeadOfficeName, Email, PhoneNumber, Address, City, PostalCode, Province)
VALUES
('1', 'ORÉILLY', 'www.oreilly.com', 'Head office', 'master@oreilly.com', '123-456-7890', '100 Street', 'Montreal', 'H5J 3Y1', 'Quebec'), ('2', 'Anvil Press', 'www.anvilpress.com', 'Anvil Head Office', 'master@anvil.com', '547-252-5047', '3008 Broad Road', 'Vancouver', 'V6B 3X5', 'British Columbia'),
('3', 'ARP Books', 'www.arpbooks.org', 'ARP Head Office', 'contact@arpbooks.com', '204-942-7058', '205-70 Arthur Street', 'Winnipeg', 'R3B 1G7', 'Manitoba'),
('4', 'Bibliotheque Quebecoise', 'www.livres-bq.com', 'Livre Quartier General', 'dnm@librairieduquebec.fr', '514-523-1523', '1815 avenue De Lorimier', 'Montreal', 'H2K 3W6', 'Quebec'),
('5', 'Black Moss Press', 'www.blackmosspress.com', 'Moss Head Office', 'alblackmosspress@gmail.com', '519-222-7476', '2450 Byng Road', 'Windsor', ' N8W 3E8', 'Ontario'),
('6', 'Black Rose Books', 'www.blackrosebooks.net', 'Black Rose Head Office', 'contact@blackrose.com', '514-570-2665', '35788 Rue Leo Pariseau', 'Montreal', 'H2X 0A4', 'Quebec'),
('7', 'Brick Books', 'www.brickbooks.ca', 'Brick Head Office', 'brenda@brickbooks.ca', '613-328-4947', '487 King St. W', 'Kingston', 'K7L 2X7', 'Ontario'),
('8', 'Canadian Poetry Press', 'www.canadianpoetry.org', 'Poetry Head Office', 'contact@cadpoetry.org', '519-661-2111', '1151 Richmond St', 'London', 'N6A 3K7', 'Ontario'),
('9', 'Cormorant Books', 'www.cormorantbooks.com', 'Cormorant Head Office', 'publicity@cormorantbooks.com', '416-925-8887', '260 Spadina Avenue Suite 502', 'Toronto', 'M5T 2E4', 'Ontario'),
('10', 'Coach House Books', 'www.chbooks.com', 'Coach Head Office', 'mail@chbooks.com', '416-979-2217', '80 bpNichol Lane', 'Toronto', 'M5S 3J4', 'Ontario');

INSERT INTO Publisher_Branch(PublisherNumber, BranchName, Representative)
VALUES
('1', 'Saint-Catherine', 'Michael Jack'), ('2', 'Anvil South', 'John Doe'),
('3', 'ARP East', 'Frank Serpico'),
('4', 'Le Double Trouble', 'Guy Leblanc'),
('5', 'Moss Apple Road', 'Jen Fresno'),
('6', 'Prince-Arthur', 'Isabelle Marceau'),

('7', 'Brick North', 'Trevor Walter'),
('8', 'Queens', 'Mary Destiny'),
('9', 'Rosedale', 'Patrick Winters'),
('10', 'Chestnut', 'Clementine April');

INSERT INTO Bookstore (BookstoreName, Email, PhoneNumber, Address, City, PostalCode, Province)
VALUES
('Indigo', 'contact@indigo.com', '438-123-4567', 'Street Main', 'Toronto', 'M4V M4T', 'Ontario'), ('Fairś Fair Books', 'contact@fairbooks.com', '403-255-4011', '104 61 Ave SE', 'Calgary', 'T2G 0S2', 'Alberta'),
('Monkeyshines', 'contact@moneykshines.com', '403-240-1723', '2215 33rd Ave SW', 'Calgary', ' T2T 1Z9', 'Alberta'),
('Albion Books', 'contact@albionbooks.com', '604-662-3113', '523 Richards St.', 'Vancouver', 'V6B 2Z6', 'British Columbia'),
('Book Warehouse', 'query@bookwarehouse.com', '604-872-5711', '632 West Broadway ', 'Vancouver', 'V5Z 1G1', 'British Columbia'),
('Mill Street Books', 'contact@millbooks.com', '613-256-9090', '52 Mill St. ', 'Almonte', 'K0A 1A0', 'Ontario'),
('Epic Books', 'inquiry@epicbooks.com', '905-525-6538', '226 Locke St. S. ', 'Hamilton', 'L8R 3B2', 'Ontario'),
('Attic Books', 'info@atticbooks.ca ', '519-432-7277', '240 Dundas St.', 'London', 'N6A 1H3', 'Ontario'),
('Appetite for Books', 'info@appetitebooks.ca', '514-369-2002', '388 Victoria Ave', 'Westmount', 'H3Z 2N4', 'Quebec'),
('Argo Bookshop', 'info@argobookshop.ca', '514-931-3442', '1915 rue Sainte-Catherine ouest', 'Montreal', 'H3H 1M3', 'Quebec');

INSERT INTO Customer (CustomerID, FirstName, LastName, CompanyName, PhoneNumber, Address, City, PostalCode, Province, CumulativePurchaseNumber)
VALUES
('234', 'Alice', 'Mo', 'Zoom', '514-945-2446', '7 Street AAA', 'Montreal', 'H5M 3C2', 'Quebec', '100'),
('101', 'Joe', 'Palloc', 'Titus', '204-214-3546', '223 West Side Ave', 'Winnipeg', 'R2C 0A5', 'Manitoba', '200'),
('765', 'Jane', 'Ruther', 'Pear', '416-453-4576', '101 Truffle Road', 'Toronto', 'M5X M5V', 'Ontario', '50'),
('444', 'Brad', 'Sherwood', 'Cactus', '416-300-2458', '22 Paleo Avenue', 'Toronto', 'M6R M6S', 'Ontario', '80'),
('221', 'Polly', 'Tenu', 'Orange', '416-213-7484', '9876 Hickson St.', 'Toronto', 'M7G M1F', 'Ontario', '60'),
('565', 'Alfred', 'Worth', 'Wayne', '604-298-6565', '969 Witherspoon Road', 'Vancouver', 'V5K 1A9', 'British Columbia', '25'),
('999', 'Penny', 'Lane', 'Butterfly', '604-564-2234', '1091 Abbington Street', 'Vancouver',

'V9K 1E9', 'British Columbia', '30'),
('888', 'George', 'Brigkin', 'Peach', '604-232-7874', '234 Brown Street', 'Vancouver',
'V7K 2C4', 'British Columbia', '40'),
('689', 'Felix', 'Tremblay', 'Rond', '514-345-4545', '3456 Mont-Royal Ave', 'Montreal',
'H3N 1T2', 'Quebec', '70'),
('345', 'Monique', 'Rideau', 'Pomme', '438-567-2343', '452 Saint-Patrick St', 'Montreal',
'H6K H9J', 'Quebec', '80');

INSERT INTO Book (ISBN, Title, Subject, CostPrice, SellingPrice, PublisherNumber,
PublisherYtdQtySold, PublisherQtyOnHand)
VALUES
('987-6-54-60197', 'Database System', 'Textbook', '150', '200', '1', '1000', '2000'), ('498-
3-34-14690', 'How to make hamburger', 'Cookbook', '20', '50', '1', '500', '800'),
('563-4-56-35673', 'Chicken Soup Book', 'Cookbook', '15', '25', '2', '1500', '200'),
('765-2-34-67894', 'Darkness Within', 'Fantasy', '30', '60', '3', '800', '400'),
('876-8-56-98765', 'Autobiography of Tim', 'Biography', '20', '80', '4', '400', '0'),
('234-4-23-45674', 'WW2: Tanks', 'History', '50', '100', '5', '700', '100'),
('908-1-44-56765', 'Space Veteran', 'Sci-Fi', '45', '65', '6', '450', '300'),
('765-3-80-56745', 'Shoe String Adventures', 'Novel', '20', '30', '7', '300', '250'),
('456-3-45-67544', 'Quiet Trust', 'Romance', '10', '15', '8', '500', '100'),
('876-8-56-45675', 'Counting Shapes', 'Childhood', '5', '10', '9', '450', '50');

INSERT INTO Author (SIN, FirstName, LastName)
VALUES
('900-800-700', 'Abraham', 'Silberschatz'),
('900-800-701', 'Henry', 'Korth'),
('900-800-702', 'Albert', 'Einstein'),
('310-347-729', 'Aaren', 'Ainslie'),
('110-202-223', 'Netti', ' Fan'),
('970-177-142', 'Alyda', ' Rowena'),
('001-001-200', 'Pippa', ' Ariella'),
('000-091-002', 'Merlina', ' Casi'),
('023-304-109', 'Jena', ' Debra'),
('190-001-000', 'Krysta', ' Jillie');

INSERT INTO Book_Author (ISBN, SIN)
VALUES
('987-6-54-60197', '900-800-700'), ('987-6-54-60197', '900-800-701'),
('498-3-34-14690', '900-800-702'),
('563-4-56-35673', '310-347-729'),
('765-2-34-67894', '110-202-223'), ('876-8-56-98765', '970-177-142'),
('234-4-23-45674', '001-001-200'),
('908-1-44-56765', '000-091-002'),
('765-3-80-56745', '023-304-109'),

('456-3-45-67544', '190-001-000');

INSERT INTO Reader_Interest (CustomerID, BookGenreInterest)
VALUES
('234', 'Novel'),
('101', 'Fantasy'),
('765', 'History'),
('444', 'Sci-Fi'),
('221', 'Cookbook'),
('565', 'Biography'),
('999', 'Romance'),
('888', 'Novel'),
('689', 'Textbook'),
('345', 'History');

INSERT INTO Inventory (ISBN, BookstoreName, QtySold, QtyOnHand) VALUES
('987-6-54-60197', 'Indigo', '0', '5'),
('498-3-34-14690', 'Fairś Fair Books', '100', '150'),
('563-4-56-35673', 'Albion Books', '20', '10'),
('765-2-34-67894', 'Book Warehouse', '40', '8'),
('876-8-56-98765', 'Mill Street Books', '10', '10'),
('234-4-23-45674', 'Epic Books', '22', '13'),
('908-1-44-56765', 'Attic Books', '1', '14'),
('765-3-80-56745', 'Appetite for Books', '34', '18'),
('456-3-45-67544', 'Argo Bookshop', '98', '2'),
('876-8-56-45675', 'Monkeyshines', '20', '5');

INSERT INTO BookOrder (OrderNumber, OrderQty, OrderDate) VALUES
('7349', '10', '2020-5-20'),
('7350', '20', '2020-5-20'),
('8945', '15', '2020-6-3'),
('1234', '4', '2020-4-19'),
('4564', '10', '2020-4-2'),
('3847', '5', '2020-1-18'),
('2345', '8', '2020-2-23'),
('5674', '3', '2020-4-15'),
('4345', '2', '2020-3-20'),
('1983', '11', '2020-5-1'),
('8374', '13', '2020-2-27'),
('8928', '50', '2020-3-22'),
('3245', '100', '2020-2-11'),
('6755', '120', '2020-3-19'),
('9876', '80', '2020-1-28'),
('2938', '90', '2020-5-22'),

('4944', '75', '2020-4-20'),
('2334', '110', '2020-5-10'),
('6054', '90', '2020-3-11'),
('2232', '200', '2020-5-13');

INSERT INTO CustomerBookstoreOrder (OrderNumber, ISBN, BookstoreName, CustomerID, BackOrder)
VALUES
('7349', '498-3-34-14690', 'Indigo', '234', false),
('7350', '987-6-54-60197', 'Fairś Fair Books', '234', true),
('1234', '563-4-56-35673', 'Albion Books', '101', false),
('4564', '765-2-34-67894', 'Book Warehouse', '765', false),
('3847', '876-8-56-98765', 'Mill Street Books', '444', false),
('2345', '234-4-23-45674', 'Epic Books', '221', false),
('5674', '908-1-44-56765', 'Attic Books', '565', false),
('4345', '765-3-80-56745', 'Appetite for Books', '999', false),
('1983', '456-3-45-67544', 'Argo Bookshop', '888', false),
('8374', '876-8-56-45675', 'Monkeyshines', '689', false);

INSERT INTO PublisherBookstoreOrder (OrderNumber, ISBN, BookstoreName, PublisherNumber, BranchName, BackOrder)
VALUES
('8945', '498-3-34-14690', 'Indigo', '1', 'Saint-Catherine', false),
('8928', '563-4-56-35673', 'Albion Books', '2', 'Anvil South', false),
('3245', '765-2-34-67894', 'Book Warehouse', '3', 'ARP East', false),
('6755', '876-8-56-98765', 'Mill Street Books', '4', 'Le Double Trouble', true),
('9876', '234-4-23-45674', 'Epic Books', '5', 'Moss Apple Road', false),
('2938', '908-1-44-56765', 'Attic Books', '6', 'Prince-Arthur', false),
('4944', '765-3-80-56745', 'Appetite for Books', '7', 'Brick North', false),
('2334', '456-3-45-67544', 'Argo Bookshop', '8', 'Queens', false),
('6054', '876-8-56-45675', 'Monkeyshines', '9', 'Rosedale', false),
('2232', '987-6-54-60197', 'Fairś Fair Books', '1', 'Saint-Catherine', false);

6 Viewing all Tuples in Each Table

In order to see the results of all tuples in the each table, please see our website: https://cxc5531.encs.concordia.ca/php/controller.php?question=12