Faculty of Engineering and Computer Science Expectations of Originality

This form has been created to ensure that all students in the Faculty of Engineering and Computer Science comply with principles of academic integrity <u>prior</u> to submitting coursework to their instructors for evaluation: namely reports, assignments, lab reports and/or software. All students should become familiar with the University's Code of Conduct (Academic) located at http://web2.concordia.ca/Legal_Counsel/policies/english/AC/Code.html

Please read the back of this document carefully before completing the section below. This form must be attached to the front of all coursework submitted to instructors in the Faculty of Engineering and Computer Science.

Course	Number: COMP 5531	<u> </u>	Instructor:_	Nagi Basha				
Type of	Submission (Please chec	ck off reponses to bo	th a & b)					
a	Report Assignme	nt <u>X</u> Lab Repor	rt <u>X</u> So	oftware				
b	_ Individual submission	X Group Sul	bmission (All n	nembers of the team	must sign below)			
Ū	Having read both sides of this form, I certify that I/we have conformed to the Faculty's expectations of originality and standards of academic integrity.							
	Adnan Ali please print clearly)	_ ID No: <u>40181614</u>	Signature: _	Affle	_Date: 6/20/21			
	Daejung Bae please print clearly)	_ ID No: <u>40013623</u>	Signature: _	Jasonbae	_Date: <u>6/20/21</u>			
	Patrick Drummond please print clearly)	_ ID No: <u>40185198</u>	Signature: _	Patrick Drymond	Date: 6/20/21			
Name: S	Seyedsina Mirmaghferaty please print clearly)	_ ID No: <u>40124936</u>	Signature: _	sina Mirmagh	Date: 6/20/21			
Name:	please print clearly)	_ ID No:	Signature: _		Date:			
Name:	please print clearly	_ ID No:	Signature:		Date:			
Do Not \	Write in this Space – Res	erved for Instructor						

EXPECTATIONS OF ORIGINALITY & STANDARDS OF ACADEMIC INTEGRITY

ALL SUBMISSIONS must meet the following requirements:

- 1. The decision on whether a submission is a group or individual submission is determined by the instructor. Individual submissions are done alone and should not be identical to the submission made by any other student. In the case of group submissions, all individuals in the group must be listed on and must sign this form prior to its submission to the instructor.
- 2. All individual and group submissions constitute original work by the individual(s) signing this form.
- 3. Direct quotations make up a very small proportion of the text, i.e., not exceeding 5% of the word count.
- 4. Material paraphrased from a source (e.g., print sources, multimedia sources, web-based sources, course notes or personal interviews) has been identified by a numerical reference citation.
- 5. All of the sources consulted and/or included in the report have been listed in the Reference section of the document.
- 6. All drawings, diagrams, photos, maps or other visual items derived from other sources have been identified by numerical reference citations in the caption.
- 7. No part of the document has been submitted for any other course.
- 8. Any exception to these requirements are indicated on an attached page for the instructor's review.

REPORTS and ASSIGNMENTS must also meet the following additional requirements:

- 1. A report or assignment consists entirely of ideas, observations, information and conclusions composed by the student(s), except for statements contained within quotation marks and attributed to the best of the student's/students' knowledge to their proper source in footnotes or references.
- 2. An assignment may not use solutions to assignments of other past or present students/instructors of this course or of any other course.
- 3. The document has not been revised or edited by another student who is not an author.
- 4. For reports, the guidelines found in <u>Form and Style</u>, by Patrick MacDonagh and Jack Borden (Fourth Edition: May 2000, available at http://www.encs.concordia.ca/scs/Forms/Form&Style.pdf) have been used for this submission.

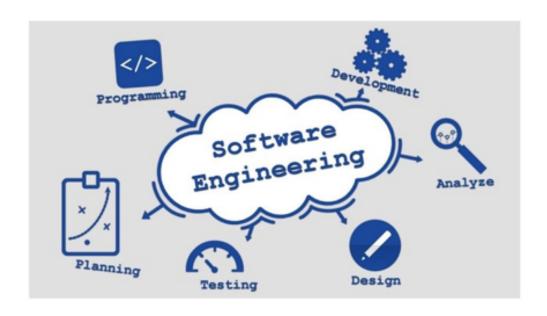
LAB REPORTS must also meet the following requirements:

- 1. The data in a lab report represents the results of the experimental work by the student(s), derived only from the experiment itself. There are no additions or modifications derived from any outside source.
- In preparing and completing the attached lab report, the labs of other past or present students of this course or any other course have not been consulted, used, copied, paraphrased or relied upon in any manner whatsoever.

SOFTWARE must also meet the following requirements:

- 1. The software represents independent work of the student(s).
- 2. No other past or present student work (in this course or any other course) has been used in writing this software, except as explicitly documented.
- 3. The software consists entirely of code written by the undersigned, except for the use of functions and libraries in the public domain, all of which have been documented on an attached page.
- 4. No part of the software has been used in previous submissions except as identified in the documentation.
- 5. The documentation of the software includes a reference to any component that the student(s) did not write.
- All of the sources consulted while writing this code are listed in the documentation.

Important: Should you require clarification on any of the above items please contact your instructor.



COMP 5531

WARM-UP PROJECT 1 TEAM WIC55311

Team email – wic55311@encs.concordia.ca

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Seyedsina Mirmaghferaty	40124936

Schema

Customer (<u>customer_id</u>, first_name, last_name, email, phone_number, total_purchases, address, city, province, postal_code)

Bookstore (bookstore id, name)

Author (author id, first name, last name)

Reader Interest (email, customer id, genre)

Book (<u>isbn</u>, title, author, cost_price, sell_price, subject, quantity_on_hand, sold_per_year)

Publisher (<u>publisher_id</u>, name, phone_number, email, website, address, city, province, postal code)

Branch (<u>branch_id</u>, publisher_id, name, phone, address, province, postal_code, branch manager, branch manager email, head office id)

Book (<u>isbn</u>, title, author_name, author_id, genre, publisher_id, cost_price, sell_price, quantity_on_hand, sold_per_year)

BooksInABranch (<u>isbn</u>, <u>branch</u> id, inventory)

Orders (order id, order date, isbn, quantity ordered, publisher id, branch id)

CustomersOrder (<u>details_id</u>, isbn, quantity, price, customer_id, bookstore_id, order_date)

Assumptions

5531 - Bookstore is given an id to distinguish it from other bookstores in the area and to allow for scalability in the database, if required.

Reader-Interest is based on a user's/customers previous book history or cookies. It is tracked by the email listed on the site and the subject is the genre of the books purchased/viewed.

Customer is a normal consumer who is separate from the bookstore entity.

Orders is a portal, created by the selling companies, that is used by both customers and bookstores to place their orders. Once either entity places their orders with the

respective details, the order is transferred to the publishing company or the book warehouse according to the order type.

Order_details record everything related to order made from the portal. It distinguishes between the Customer and Bookstore order by asking for their ID.

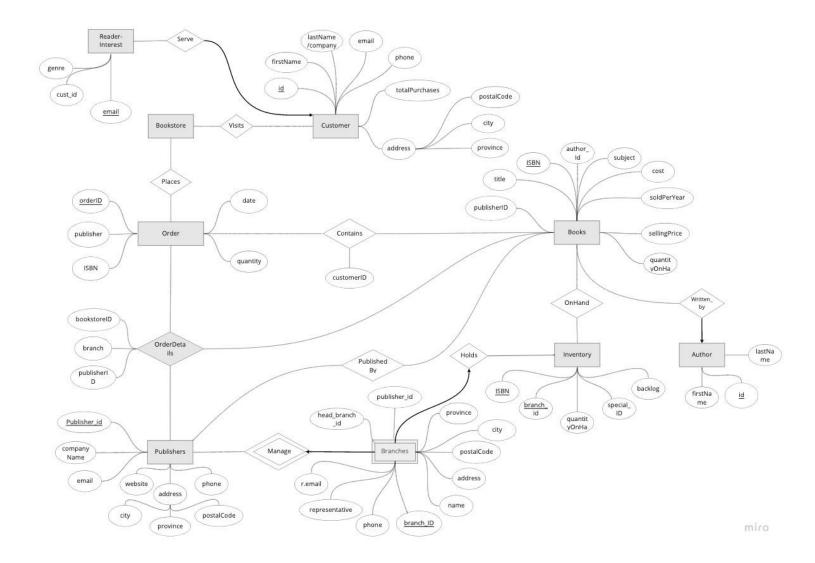
For those publishers in the area that have multiple branches, the head-office branch has a special ID given to that specific branch.

Orders portal sends the book to a specific publisher, who sends it to a specific branch.

Subject is stored as a genre for the books in the database.

Book_branch lists inventory of books that are available at a specific branch (assigned to a branch id).

E/R Diagram



Running the code

Our team has been assigned the wic55311 database, where we implemented our DBMS along with a generic database for queries. To login, just use the following credentials.

Your MYSQL username is wic55311

The name of the MYSQL server is wic5531.encs.concordia.ca

The name of the database you can use is also wic55311

The password for your database is ASBP5531 (case sensitive)

You cannot change this password.

The script for the schema has been stored in Procedures > abc.

The script for the data has been stored in Procedures > data.

The script for each query has been stored in Procedures > queries.

Each script can be accessed by using the call function. Details of each script are mentioned below with the following results.

Query1: Get details of all books in stock.

isbn	title	author	author	_id subject	publisher	_id cost	_price se	ll_price c	quantity_on_hand	sold_per_year
5110737231234	Real Genius	Christie	İ	10 mystery	1	10	12.00	26.00	7	98
9780140447934	War and Peace	Tolstoy	i	2 Novel	i	2	17.00	20.99	15	400
9780140707342	Hamlet	Shakespeare	İ	3 Tragic Novel	İ	3	18.00	20.00	20	800
9780807281918	Harry Potter and the Chamber of Secrets	Rowling	1	1 Novel	1	1	19.80	22.50	20	500
9781260548006	Software Engineering a practitioners Approach	Pressman	1	7 Computer Science	1	7	84.24	90.24	125	1250
9781400136315	The Adventures Of Huckleberry Finn	Twiain	1	8 American Literature	:	8	113.50	120.00	5	899
9781400156337	Pride and Prejudice	Austen	1	4 Romantic Novel	1	4	51.00	58.46	30	184
9781405032735	Murder on the Orient Express	Christie	1	10 Novel	1	10	85.00	90.00	2	401
	Along Came A Spider	Christie	1	10 Novel	1	10	60.23	65.23	200	0
9781600242304	The Quickie	Patterson	1	9 Novel	1	9	15.50	18.00	160	1500

Query2: Get details of all back orders.

Query3: For a given customer, get details of all his/her back orders

Query4: For a given customer, get details of all his/her purchases made during a specific period of time

_		details_id isbn			bookstore_id order_date
Hlbert Hlbert	Hinstein Hinstein	3 978014070734	3 18.00	8	1 2020-03-17 1 2020-08-22

Query5: Give a report of sales during a specific period of time

isbn	quantity_ordered	sell_price	cost_price	profit
9780807281918 9780140447934	•			2.70
9780140707342	•			6.00
9781400156337	•			29.84
9781551117584	. 5	12.00	10.00	10.00

Query6: Find the title of book(s) that have the highest back-order

title	back_order					
					+	٠
Murder	on	the	Orient	Express	10	l

Query7: Give details of books that are supplied by a given publisher

isbn	title	•	author_id subject					
978140503273	34 Real Genius 35 Murder on the Orient Expres: 39 Along Came A Spider	Christie Christie Christie	10 Novel	10 10 10	12.00 85.00 60.23	26.00 90.00 65.23	7 2 200	98 401 0

Query8: For a given publisher, get details of the head office and all the branches for that publisher

branch_id publisher	_id name	branch_manager	branch_manager_email	head_office_id phone_number	address	province pos	tal_code pub	lisher_id name	phone_number email	website
1	10 First Branch	Donald Trump	donald.trump@gmail.com	0 12345678910	First Branch Street	ON A50	282		hing 20191817161 blooms@gmail	
2	10 Second Branch	Melania Trump	melania.trump@gmail.com	0 12345678910	Second Branch Street	t ON ASE	2B2	10 Bloomsburry Publis	hing 20191817161 blooms@gmail	.com Bloomsburry.com
3	10 Third Branch	Trump Jr	junior.trump@gmail.com	0 12345678910	Third Branch Street	ON A50	2B2	10 Bloomsburry Publis	hing 20191817161 blooms@gmail	.com Bloomsburry.com
4	10 Fourth Branch	Tvanka Trump	livanka.trumn@email.com	1 112345678910	Foruth Branch Street	EION IA5D	2B2	10 Bloomsburry Publis	hing 20191817161 blooms@gmail	.com Bloomsburry.com

Query9: Get details of books that are in the inventory but there have never been a purchase for that specific book.

isbn	title	 	 		ty_on_hand sold_per	
	89 Along Came A Spid	 10 Novel	 60.23	65.23	200	0

Query10: Get details of all books that are in the inventory for a given author

isbn	title	author	author_id	subject	publisher_io	d cost_pr	ice sell	_price	quantity_on_hand	sold_per_year
	34 Real Genius	Christie		mystery	10	9 12	.00	26.00	7	98
	35 Murder on the Orient Express			Novel	10	85	.00	90.00	2	401
978147890208	39 Along Came A Spider	Christie	10	Novel	10	3 6e	0.23	65.23	200	0

Procedures / abc / source

```
CREATE DEFINER=`wic55311`@`132.205.%.%` PROCEDURE `wic55311`.`abc`()
BEGIN
SET FOREIGN KEY CHECKS=0; -- Please keep drop table in order
drop table if exists customer;
drop table if exists bookstore;
drop table if exists author:
drop table if exists reader interest;
drop table if exists publisher;
drop table if exists branch;
drop table if exists book;
drop table if exists inventory;
drop table if exists book branch;
drop table if exists orders;
drop table if exists order details;
SET FOREIGN_KEY_CHECKS=1;
create table customer
       customer_id int not null,
       first name varchar(20) not null,
       last name varchar(20) not null,
       email varchar(20) not null,
       phone number varchar(11) not null,
       address varchar(50) not null,
       city varchar(20) not null,
       postal code varchar(6) not null,
       province varchar(2) not null,
       total_purchases smallint,
       company name varchar (50), -- check
       primary key (customer id)
);
create table bookstore
       bookstore id int not null,
       customer id int,
       primary key (bookstore id),
       foreign key (customer_id) references customer(customer_id)
);
create table author
       author id int not null,
       first_name varchar(50),
```

```
last name varchar(50),
       primary key (author_id)
);
create table reader_interest
       customer_id int not null,
       email varchar(20) not null,
       genre varchar(20) not null,
       primary key (email),
       foreign key (customer_id) references customer(customer_id)
);
create table publisher
       publisher id int not null,
       name varchar(50) not null,
       phone_number varchar(11) not null,
       email varchar (50) not null,
       website varchar(50) not null,
       address varchar (50) not null,
       city varchar (20) not null,
       province varchar (2) not null,
       postal code varchar(6) not null,
       primary key (publisher_id)
);
create table branch
       branch id int not null,
       publisher_id int not null,
       name varchar(50) not null,
       branch_manager varchar(50) not null,
       branch manager email varchar(50) not null,
       head office id smallint not null,
       phone_number varchar(11) not null,
       address varchar(50) not null,
       province varchar(2) not null,
       postal code varchar(6) not null,
       primary key (branch_id),
       foreign key (publisher_id) references publisher(publisher_id)
);
create table book
       isbn varchar(13) not null,
       title varchar (100) not null,
       author varchar (50) not null,
```

```
author id int not null,
       subject varchar (50) not null,
       publisher_id int not null,
       cost price decimal (6,2) not null,
       sell_price decimal (6,2) not null,
       quantity_on_hand smallint,
       sold_per_year smallint,
       primary key (isbn),
       foreign key (author id) references author(author id),
       foreign key (publisher id) references publisher(publisher id)
);
create table inventory
       bookstore_id int not null,
       isbn varchar(13) not null,
       quantity_on_hand smallint,
       primary key (bookstore_id, isbn),
       foreign key (bookstore id) references bookstore(bookstore id),
       foreign key (isbn) references book(isbn)
);
create table book branch -- books available in a branch
       isbn varchar(13) not null,
       branch id int not null,
       inventory int not null,
       primary key (branch id, isbn),
       foreign key (isbn) references book (isbn),
       foreign key (branch_id) references branch (branch_id)
);
create table orders -- books ordered by publishers
       order_id int not null,
       order_date date, -- YYYY-MM-DD
       isbn varchar (13) not null,
       quantity ordered int not null,
       publisher id int not null,
       branch id int not null,
       primary key (order_id),
       foreign key(isbn) references book(isbn),
       foreign key(publisher id) references publisher(publisher id),
       foreign key(branch id) references branch(branch id)
);
create table order_details -- books ordered by customers (includes bookstores)
```

```
details_id int not null,
    isbn varchar (13) not null,
    quantity smallint not null,
    price decimal (6,2) not null,
    customer_id int not null,
    bookstore_id int not null,
    order_date date, -- YYYY-MM-DD
    primary key (details_id),
    foreign key (isbn) references book(isbn),
    foreign key (customer_id) references customer(customer_id),
    foreign key (bookstore_id) references bookstore(bookstore_id)
);
```

END

Procedures / data / source

(12, 'William', 'Ditty'),

```
CREATE DEFINER=`wic55311`@`132.205.%.%` PROCEDURE `wic55311`.`data`()
BEGIN
insert into bookstore (bookstore id, customer id)
values (1, null);
insert into customer (customer id, first name, last name, email, phone number, address, city,
postal code, province, total purchases, company name)
values
       (1, 'Albert', 'Ainstein', 'albert@gmail.com', 12345678910, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 40, null),
       (2, 'Blbert', 'Binstein', 'blbert@gmail.com', 12345678911, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 39, null),
       (3, 'Clbert', 'Cinstein', 'clbert@gmail.com', 12345678912, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 38, null),
       (4, 'Dlbert', 'Dinstein', 'dlbert@gmail.com', 12345678913, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 37, null),
       (5, 'Elbert', 'Einstein', 'elbert@gmail.com', 12345678914, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 36, null),
       (6, 'Flbert', 'Finstein', 'flbert@gmail.com', 12345678915, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 35, null),
       (7, 'Glbert', 'Ginstein', 'glbert@gmail.com', 12345678916, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 34, null),
       (8, 'Hlbert', 'Hinstein', 'hlbert@gmail.com', 12345678917, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 33, null),
       (9, 'Ilbert', 'Iinstein', 'ilbert@gmail.com', 12345678918, 'Albert Street', 'Toronto',
'M4C1A1', 'ON', 32, null),
       (10, 'John', 'Smith', 'john.smith@gmail.com', 19987654321, 'Hohn Street', 'Toronto',
'A5D2B2', 'BC', 25, null);
insert into author (author id, first name, last name)
values
       (1, 'Jk',
                       'Rowling'),
       (2, 'Leo',
                      'Tolstoy'),
       (3, 'Wiliam', 'Shakespeare'),
       (4, 'Jane',
                      'Austen'),
       (5, 'Charles', 'Dickens'),
       (6, 'Abraham', 'Silberschatz'),
       (7, 'RogerS', 'Pressman'),
       (8, 'Mark', 'Twiain'),
       (9, 'James', 'Patterson'),
       (10, 'Agatha', 'Christie'),
       (11, 'James', 'Guyer'),
```

```
(13, 'Lucia', 'Yushachkov');
```

insert into reader_interest (customer_id, email, genre) values

- (1, 'albert@gmail.com', 'Horror'),
- (2, 'blbert@gmail.com', 'Horror'),
- (3, 'clbert@gmail.com', 'Horror'),
- (4, 'dlbert@gmail.com', 'Horror'),
- (5, 'elbert@gmail.com', 'Horror'),
- (6, 'flbert@gmail.com', 'Horror'),
- (7, 'glbert@gmail.com', 'Horror'),
- (8, 'hlbert@gmail.com', 'Horror'),
- (9, 'ilbert@gmail.com', 'Horror'),
- (10, 'john.smith@gmail.com', 'Suspense');

insert into publisher (publisher_id, name, phone_number, email, website, address, city, province, postal_code)

values

- (1, 'publisher1', 12345678911, 'publisher1@gmail.com', 'publisher1.com', 'Publisher1 Street', 'Toronto', 'ON', 'M4C1A1'),
- (2, 'publisher2', 12345678912, 'publisher1@gmail.com', 'publisher2.com', 'Publisher2 Street', 'Toronto', 'ON', 'M4C1A1'),
- (3, 'publisher3', 12345678913, 'publisher1@gmail.com', 'publisher3.com', 'Publisher3 Street', 'Toronto', 'ON', 'M4C1A1'),
- (4, 'publisher4', 12345678914, 'publisher1@gmail.com', 'publisher4.com', 'Publisher4 Street', 'Toronto', 'ON', 'M4C1A1'),
- (5, 'publisher5', 12345678915, 'publisher1@gmail.com', 'publisher5.com', 'Publisher5 Street', 'Toronto', 'ON', 'M4C1A1'),
- (6, 'publisher6', 12345678916, 'publisher1@gmail.com', 'publisher6.com', 'Publisher6 Street', 'Toronto', 'ON', 'M4C1A1'),
- (7, 'publisher7', 12345678917, 'publisher1@gmail.com', 'publisher7.com', 'Publisher7 Street', 'Toronto', 'ON', 'M4C1A1'),
- (8, 'publisher8', 12345678918, 'publisher1@gmail.com', 'publisher8.com', 'Publisher8 Street', 'Toronto', 'ON', 'M4C1A1'),
- (9, 'publisher9', 12345678919, 'publisher1@gmail.com', 'publisher9.com', 'Publisher9 Street', 'Toronto', 'ON', 'M4C1A1'),
- (10, 'Bloomsburry Publishing', 20191817161, 'blooms@gmail.com', 'Bloomsburry.com', 'Publisher1 Street', 'Toronto', 'ON', 'NAC24R');

insert into branch (branch_id, publisher_id, name, branch_manager, branch_manager_email,
head_office_id, phone_number, address, province, postal_code)
values

(1, 10, 'First Branch', 'Donald Trump', 'donald.trump@gmail.com', 0, 12345678910, 'First Branch Street', 'ON', 'A5D2B2'),

```
(2, 10, 'Second Branch', 'Melania Trump', 'melania.trump@gmail.com', 0, 12345678910,
'Second Branch Street', 'ON', 'A5D2B2'),
       (3, 10, 'Third Branch', 'Trump Jr', 'junior.trump@gmail.com', 0, 12345678910, 'Third
Branch Street', 'ON', 'A5D2B2'),
       (4, 10, 'Fourth Branch', 'Ivanka Trump', 'ivanka.trump@gmail.com', 1, 12345678910,
'Foruth Branch Street', 'ON', 'A5D2B2'),
       (5, 1, 'Branch1', 'Manager1', 'manager1@gmail.com', 0, 12345678910, 'Branch1 Street',
'ON', 'M4C1A1'),
       (6, 4, 'Branch2', 'Manager2', 'manager2@gmail.com', 0, 12345678910, 'Branch2 Street',
'ON', 'M4C1A1'),
       (7, 6, 'Branch3', 'Manager3', 'manager3@gmail.com', 0, 12345678910, 'Branch3 Street',
'ON', 'M4C1A1'),
       (8, 5, 'Branch4', 'Manager4', 'manager4@gmail.com', 0, 12345678910, 'Branch4 Street',
'ON', 'M4C1A1'),
       (9, 2, 'Branch5', 'Manager5', 'manager5@gmail.com', 0, 12345678910, 'Branch5 Street',
'ON'. 'M4C1A1').
       (10, 3, 'Branch6', 'Manager6', 'manager6@gmail.com', 0, 12345678910, 'Branch6
Street', 'ON', 'M4C1A1');
insert into book (isbn, title, author, author id, subject, publisher id, cost price, sell price,
quantity on hand, sold per year)
values
       ('9780807281918', 'Harry Potter and the Chamber of Secrets', 'Rowling', 1, 'Novel', 1,
19.8, 22.5, 20, 500),
       ('9780140447934', 'War and Peace', 'Tolstoy', 2, 'Novel', 2, 17, 20.99, 15, 400),
       ('9780140707342', 'Hamlet', 'Shakespeare', 3, 'Tragic Novel', 3, 18, 20, 20, 800),
       ('9781400156337', 'Pride and Prejudice', 'Austen', 4, 'Romantic Novel', 4, 51, 58.46, 30,
184),
       ('9781551117584', 'Oliver Twist', 'Dickens', 5, 'Novel', 5, 10, 12, 0, 870),
       ('9781119320913', 'Operating Systems Concepts', 'Silberschatz', 6, 'Computer Education',
6, 100, 120, 0, 100),
       ('9781260548006', 'Software Engineering a practitioners Approach', 'Pressman', 7,
'Computer Science', 7, 84.24, 90.24, 125, 1250),
       ('9781400136315', 'The Adventures Of Huckleberry Finn', 'Twiain', 8, 'American
Literature', 8, 113.5, 120, 5, 899),
       ('9781600242304', 'The Quickie', 'Patterson', 9, 'Novel', 9, 15.5, 18, 160, 1500),
       ('9781405032735', 'Murder on the Orient Express', 'Christie', 10, 'Novel', 10, 85, 90, 2,
401),
       ('9781478902089', 'Along Came A Spider', 'Patterson', 10, 'Novel', 10, 60.23, 65.23, 200
, <mark>0</mark>),
       ('5110737231234', 'Real Genius', 'Guyer', 10, 'mystery', 10, 12.00, 26.00, 7, 98);
insert into inventory (bookstore id, isbn, quantity on hand)
values
       (1, '9780807281918', 40),
       (1, '9780140447934', 21),
```

```
(1, '9780140707342', 0),
       (1, '9781400156337', 27),
       (1, '9781551117584', 20),
       (1, '9781119320913', 32),
       (1, '9781260548006', 15),
       (1, '9781400136315', 21),
       (1, '9781600242304', 22),
       (1, '9781405032735', 19),
       (1, '9781478902089', 20),
       (1, '5110737231234', 30);
insert into book_branch (isbn, branch_id, inventory)
values
       ('9780807281918', 1, 0),
       ('9780140447934', 2, 15),
       ('9780140707342', 3, 20),
       ('9781400156337', 4, 25),
       ('9781551117584', 5, 30),
       ('9781119320913', 6, 35),
       ('9781260548006', 7, 40),
       ('9781400136315', 8, 45),
       ('9781600242304', 9, 50),
       ('9781405032735', 10, 55),
       ('9781478902089', 10, 60),
       ('5110737231234', 10, 65);
insert into orders (order id, order date, isbn, quantity ordered, publisher id, branch id)
values
       (1, "2020-01-15", '9780807281918', 1, 1, 1),
       (2, "2020-02-16", '9780140447934', 2, 2, 2),
       (3, "2020-03-17", '9780140707342', 3, 3, 3),
       (4, "2020-04-18", '9781400156337', 4, 4, 4),
       (5, "2020-05-19", '9781551117584', 5, 5, 5),
       (6, "2020-06-20", '9781119320913', 6, 6, 6),
       (7, "2020-07-21", '9781260548006', 7, 7, 7),
       (8, "2020-08-22", '9781400136315', 8, 8, 8),
       (9, "2020-09-23", '9781405032735', 9, 9, 9),
       (10, "2020-10-24", '9781405032735', 10, 10, 10);
insert into order details (details id, isbn, quantity, price, customer id, bookstore id,
order date)
values
       (1, '9780807281918', 1, 19.8, 1, 1, "2020-01-15"),
       (2, '9780140447934', 2, 17, 2, 1, "2020-02-16"),
       (3, '9780140707342', 3, 18, 8, 1, "2020-03-17"),
```

```
(4, '9781400156337', 4, 51, 4, 1,"2020-04-18"), (5, '9781551117584', 5, 10, 5, 1, "2020-05-19"), (6, '9781119320913', 6, 100, 6, 1, "2020-06-20"), (7, '9781260548006', 7, 84.2, 7, 1, "2020-07-21"), (8, '9781260548006', 7, 84.2, 8, 1, "2020-08-22"), (9, '9781405032735', 9, 15.5, 9, 1, "2020-09-23"), (10, '9781405032735', 10, 60.23, 10, 1, "2020-10-24");
```

END

Procedures / queries / source

```
BEGIN
-- j.
       Get details of all books in stock.
select *
from book
where quantity on hand > 0;
-- ii.
       Get details of all back orders.
select orders.*
from orders
where
       branch_id in
                            (select branch id
                            from book branch
                            where inventory = 0);
-- iii. For a given customer, get details of all his/her back orders.
select order details.*
from order details
where
       order details.isbn = '9780807281918'; -- took book from answer (ii) as it was in
backorder
-- iv. For a given customer, get details of all his/her purchases made during a
specific period of time.
select customer.first name, customer.last name, order details.*
from order details, customer
where order details.customer id = customer.customer id
       and order details.order date between "2020-01-15" and "2020-09-23"
       and order details.customer id = 8;
       Give a report of sales during a specific period of time.
select book.isbn, orders.quantity ordered, book.sell price, book.cost price,
(orders.quantity ordered * (book.sell price - book.cost price)) as profit
from book, orders
where book.isbn = orders.isbn
       and orders.order date between "2020-01-15" and "2020-05-19";
-- vi. Find the title of book(s) that have the highest back-order.
select book.title, (orders.quantity ordered - inventory.quantity on hand) as back order
from book, orders, order details, inventory
where book.isbn = orders.isbn
       and orders.isbn = order details.isbn
```

CREATE DEFINER=`wic55311`@`132.205.%.%` **PROCEDURE** `wic55311`.`queries`()

```
and (orders.quantity_ordered - inventory.quantity_on_hand) > 0
      group by book.title
      order by back_order desc
      limit 1;
-- vii. Give details of books that are supplied by a given publisher.
select book.*
from book, publisher
where book.publisher id = publisher.publisher id
       and publisher.publisher_id = 10;
-- viii. For a given publisher, get details of the head office and all the branches for
that publisher.
select *
from branch, publisher
where publisher_id = branch.publisher_id and branch.publisher_id = 10;
-- ix. Get details of books that are in the inventory but there have never been a
purchase for that specific book.
select *
from book
where sold per year = 0;
      Get details of all books that are in the inventory for a given author.
select book.*
from inventory, author, book
where inventory.isbn = book.isbn
      and author.author id = book.author id
      and author.author id = 10;
```

END