

## **Warm Up Project**

Brenden Bissessar 4044016

Pierre Watine 40027675

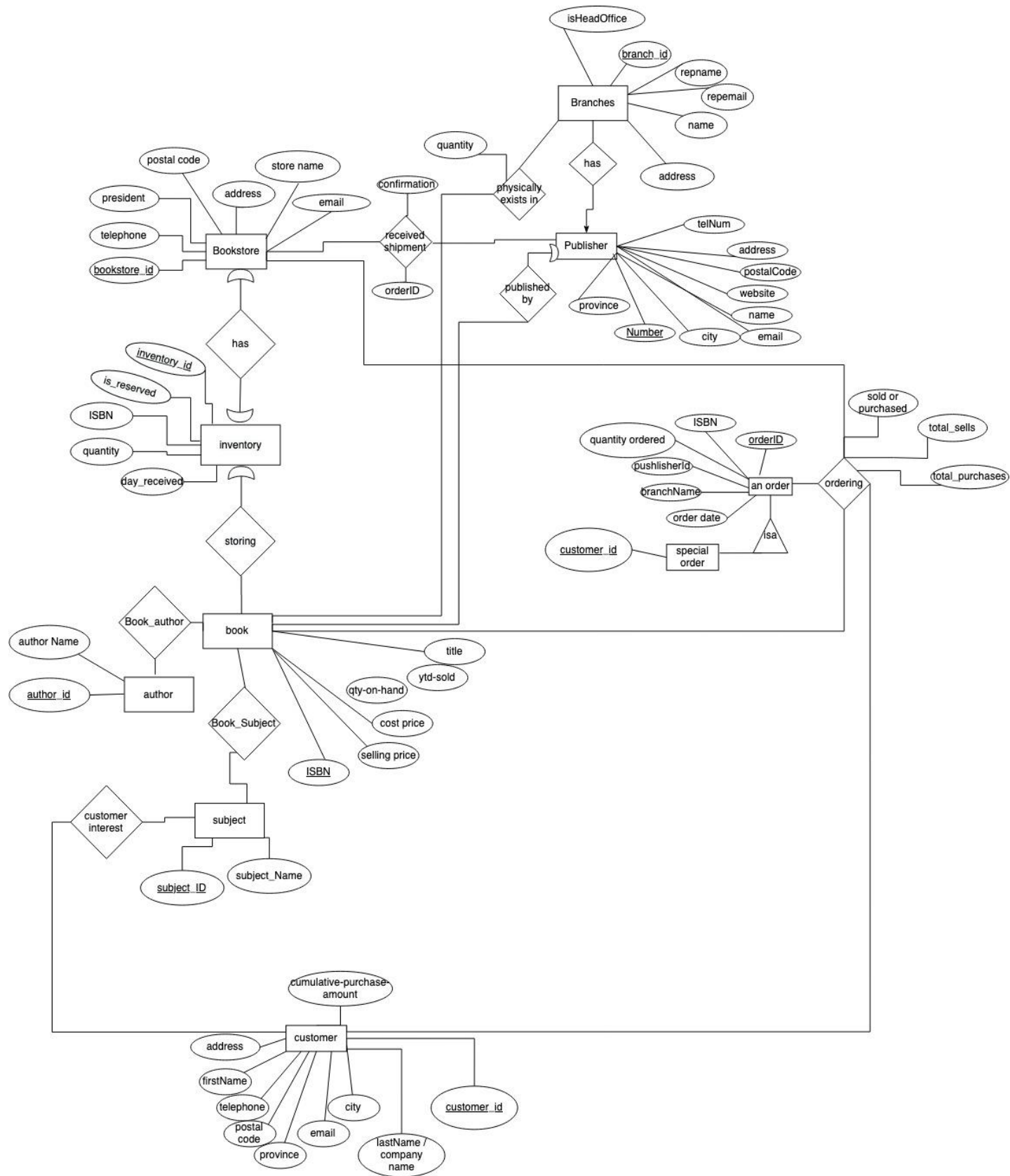
Kasra Laamerad 40020876

Evan Lamenta 27240007

The Kien Nguyen 40055738

Khaled Jababo

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Create Tables:

-- MySQL Workbench Forward Engineering
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ER ROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
-- -----
-- Schema store
-- -----
-- -----
-- Schema store
-- -----
-- CREATE SCHEMA IF NOT EXISTS `store` DEFAULT CHARACTER SET utf8 ;
USE eyc353_1 ;
-- -----
-- Table `store`.`Bookstore`

-- -----
CREATE TABLE IF NOT EXISTS `Bookstore` (
`bookstore_id` INT NOT NULL UNIQUE AUTO_INCREMENT,
`name` VARCHAR(50) NOT NULL,
`telephone` INT NOT NULL,
`email_address` VARCHAR(255) NOT NULL,
`address` VARCHAR(255) NOT NULL,
`postal_code` VARCHAR(50) NOT NULL,
`president` VARCHAR(50) NOT NULL,
PRIMARY KEY (`bookstore_id`))
ENGINE = InnoDB;
-- -----
-- Table `store`.`Intentory`
-- -----
CREATE TABLE IF NOT EXISTS `Inventory` (
`inventory_id` INT NOT NULL AUTO_INCREMENT,
`bookstore_id` INT NOT NULL,
`ISBN` VARCHAR(20) NOT NULL,
`quantity` INT NOT NULL,
`day_received` DATETIME NOT NULL,
`is_reserved` TINYINT NOT NULL,

PRIMARY KEY (`inventory_id`),
CONSTRAINT `fk_Intentory_Bookstore`
FOREIGN KEY (`bookstore_id`)
REFERENCES `Bookstore` (`bookstore_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
-----
-- Table `store`.`Publishers`
-----
CREATE TABLE IF NOT EXISTS `Publishers` (
`publisher_number` INT NOT NULL,
`name` VARCHAR(50) NOT NULL,
`telephone` INT NOT NULL,
`email_address` VARCHAR(255) NOT NULL,
`address` VARCHAR(255) NOT NULL,
`city` VARCHAR(50) NOT NULL,
`province` VARCHAR(50) NOT NULL,
`postal_code` VARCHAR(50) NOT NULL,
`website` VARCHAR(255) NULL DEFAULT NULL,
PRIMARY KEY (`publisher_number`))

ENGINE = InnoDB;
-----
-- Table `store`.`Books`
-----
CREATE TABLE IF NOT EXISTS `Books` (
`ISBN` VARCHAR(20) NOT NULL,
-- `inventory_id` INT NOT NULL,
`publisher_number` INT NOT NULL,
`title` VARCHAR(255) NOT NULL,
`cost_price` DECIMAL(5,2) NOT NULL,
`selling_price` DECIMAL(5,2) NOT NULL,
INDEX `fk_Books_Intentory1_idx` (`inventory_id` ASC) VISIBLE,
PRIMARY KEY (`ISBN`),
INDEX `fk_Books_Publishers1_idx` (`publisher_number` ASC) VISIBLE,
CONSTRAINT `fk_Books_Intentory1`
FOREIGN KEY (`inventory_id`)
REFERENCES `Inventory` (`inventory_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Books_Publishers1`
FOREIGN KEY (`publisher_number`)

REFERENCES `Publishers` (`publisher_number`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `store`.`Authors`
-- -----
CREATE TABLE IF NOT EXISTS `Authors` (
`author_id` INT NOT NULL AUTO_INCREMENT,
`name` VARCHAR(50) NOT NULL,
PRIMARY KEY (`author_id`))
ENGINE = InnoDB;
-- -----
-- Table `store`.`Subjects`
-- -----
CREATE TABLE IF NOT EXISTS `Subjects` (
`subject_id` INT NOT NULL AUTO_INCREMENT,
`name` VARCHAR(255) NOT NULL,
PRIMARY KEY (`subject_id`))

ENGINE = InnoDB;
-----
-- Table `store`.`Book_Author`
-----
CREATE TABLE IF NOT EXISTS `Books` (
`ISBN` VARCHAR(20) NOT NULL,
-- `inventory_id` INT NOT NULL,
`publisher_number` INT NOT NULL,
`title` VARCHAR(255) NOT NULL,
`cost_price` DECIMAL(5,2) NOT NULL,
`selling_price` DECIMAL(5,2) NOT NULL,
-- INDEX `fk_Books_Intentory1_idx` (`inventory_id` ASC) VISIBLE,
PRIMARY KEY (`ISBN`),
INDEX `fk_Books_Publishers1_idx` (`publisher_number` ASC) VISIBLE,
-- CONSTRAINT `fk_Books_Intentory1`
-- FOREIGN KEY (`inventory_id`)
-- REFERENCES `Inventory` (`inventory_id`)
-- ON DELETE NO ACTION
-- ON UPDATE NO ACTION,
CONSTRAINT `fk_Books_Publishers1`
FOREIGN KEY (`publisher_number`)



REFERENCES `Publishers` (`publisher_number`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
CREATE TABLE IF NOT EXISTS `arrived_books` (
`Books_ISBN` varchar(20) not null,
`inventory_id` INT NOT NULL,
INDEX `fk_Books_Inventory1_idx` (`inventory_id` ASC) VISIBLE,
CONSTRAINT `fk_Books_Inventory1`
FOREIGN KEY (`inventory_id`)
REFERENCES `Inventory` (`inventory_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_arrived_book`
FOREIGN KEY (`Books_ISBN`)
REFERENCES `Books` (`ISBN`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
primary key (Books_ISBN,inventory_id)
);

-- -----
-- Table `store`.`Book_Subject`
-- -----
CREATE TABLE IF NOT EXISTS `Book_Subject` (
`Books_ISBN` VARCHAR(20) NOT NULL,
`subject_id` INT NOT NULL,
PRIMARY KEY (`Books_ISBN`, `subject_id`),
INDEX `fk_Book_Subject_Books1_idx` (`Books_ISBN` ASC) VISIBLE,
INDEX `fk_Book_Subject_Subjects1_idx` (`subject_id` ASC) VISIBLE,
CONSTRAINT `fk_Book_Subject_Books1`
FOREIGN KEY (`Books_ISBN`)
REFERENCES `Books` (`ISBN`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Book_Subject_Subjects1`
FOREIGN KEY (`subject_id`)
REFERENCES `Subjects` (`subject_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

-- -----
-- Table `store`.`Customers`
-- -----
CREATE TABLE IF NOT EXISTS `Customers` (
`customer_id` INT NOT NULL AUTO_INCREMENT,
`first_name` VARCHAR(50) NOT NULL,
`last_name` VARCHAR(50) NOT NULL,
`address` VARCHAR(255) NOT NULL,
`city` VARCHAR(50) NOT NULL,
`province` VARCHAR(50) NOT NULL,
`postal_code` VARCHAR(50) NOT NULL,
`telephone` INT NOT NULL,
`email_address` VARCHAR(255) NOT NULL,
`cumulative_purchase_amount` DECIMAL(5,2) NULL DEFAULT 0,
PRIMARY KEY (`customer_id`))
ENGINE = InnoDB;
-- -----
-- Table `store`.`Orders`
-- -----
CREATE TABLE IF NOT EXISTS `Orders` (
`order_id` INT NOT NULL AUTO_INCREMENT,

`customer_id` INT default NULL,
`bookstore_id` INT NULL,
`ISBN` VARCHAR(20) NOT NULL,
`quantity` INT NOT NULL,
`publisher_name` VARCHAR(50) NULL DEFAULT NULL,
`brach_name` VARCHAR(50) NULL DEFAULT NULL,
`date` DATETIME NOT NULL,
PRIMARY KEY (`order_id`),
INDEX `fk_Orders_Customers1_idx` (`customer_id` ASC) VISIBLE,
INDEX `fk_Orders_Bookstore1_idx` (`bookstore_id` ASC) VISIBLE,
CONSTRAINT `fk_Orders_Customers1`
FOREIGN KEY (`customer_id`)
REFERENCES `Customers` (`customer_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Orders_Bookstore1`
FOREIGN KEY (`bookstore_id`)
REFERENCES `Bookstore` (`bookstore_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

-- -----
-- Table `store`.`Order_Book`
-- -----
CREATE TABLE IF NOT EXISTS `Order_Book` (
`order_id` INT NOT NULL,
`ISBN` VARCHAR(20) NOT NULL,
`is_sold` TINYINT NOT NULL,
`total_sell` DECIMAL(7,2) NULL DEFAULT 0,
`total_purchase` DECIMAL(7,2) NULL DEFAULT 0,
INDEX `fk_Order_Book_Orders1_idx` (`order_id` ASC) VISIBLE,
PRIMARY KEY (`order_id`, `ISBN`),
INDEX `fk_Purchase_Book_Books1_idx` (`ISBN` ASC) VISIBLE,
CONSTRAINT `fk_Order_Book_Orders1`
FOREIGN KEY (`order_id`)
REFERENCES `Orders` (`order_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Purchase_Book_Books1`
FOREIGN KEY (`ISBN`)
REFERENCES `Books` (`ISBN`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;

-- -----
-- Table `store`.`Bookstore_Publisher_Order`
-- -----
CREATE TABLE IF NOT EXISTS `Bookstore_Publisher_Order` (
`Publishers_publisher_number` INT NOT NULL,
`Bookstore_bookstore_id` INT NOT NULL,
`order_id` INT NOT NULL,
`confirmation` TINYINT NOT NULL,
INDEX `fk_Bookstore_Publisher_Order_Publishers1_idx` (`Publishers_publisher_number` ASC)
VISIBLE,
INDEX `fk_Bookstore_Publisher_Order_Bookstore1_idx` (`Bookstore_bookstore_id` ASC) VISIBLE,
PRIMARY KEY (`Publishers_publisher_number`, `Bookstore_bookstore_id`),
CONSTRAINT `fk_Bookstore_Publisher_Order_Publishers1`
FOREIGN KEY (`Publishers_publisher_number`)
REFERENCES `Publishers` (`publisher_number`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Bookstore_Publisher_Order_Bookstore1`
FOREIGN KEY (`Bookstore_bookstore_id`)
REFERENCES `Bookstore` (`bookstore_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)

ENGINE = InnoDB;
-- -----
-- Table `store`.`Special_Order`
-- -----
CREATE TABLE IF NOT EXISTS `Special_Order` (
`order_id` INT NOT NULL,
`customer_id` VARCHAR(45) NOT NULL,
INDEX `fk_Special_Order_Orders1_idx` (`order_id` ASC) VISIBLE,
PRIMARY KEY (`order_id`),
CONSTRAINT `fk_Special_Order_Orders1`
FOREIGN KEY (`order_id`)
REFERENCES `Orders` (`order_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `store`.`Branches`
-- -----
CREATE TABLE IF NOT EXISTS `Branches` (

`branch_id` INT NOT NULL AUTO_INCREMENT,
`publisher_number` INT NOT NULL,
`name` VARCHAR(50) NOT NULL,
`address` VARCHAR(255) NOT NULL,
`rep_name` VARCHAR(50) NOT NULL,
`rep_email` VARCHAR(255) NOT NULL,
`is_head_office` TINYINT NOT NULL,
PRIMARY KEY (`branch_id`),
INDEX `fk_Branches_Publishers1_idx` (`publisher_number` ASC) VISIBLE,
CONSTRAINT `fk_Branches_Publishers1`
FOREIGN KEY (`publisher_number`)
REFERENCES `Publishers` (`publisher_number`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- -----
-- Table `store`.`Branch_Book_Quantity`
-- -----
CREATE TABLE IF NOT EXISTS `Branch_Book_Quantity` (
`branch_id` INT NOT NULL,
`ISBN` VARCHAR(20) NOT NULL,



`quantity` INT NOT NULL,
INDEX `fk_Branch_Book_Quantity_Branches1_idx` (`branch_id` ASC) VISIBLE,
PRIMARY KEY (`ISBN`, `branch_id`),
CONSTRAINT `fk_Branch_Book_Quantity_Branches1`
FOREIGN KEY (`branch_id`)
REFERENCES `Branches` (`branch_id`)
ON DELETE NO ACTION
ON UPDATE NO ACTION,
CONSTRAINT `fk_Branch_Book_Quantity_Books1`
FOREIGN KEY (`ISBN`)
REFERENCES `Books` (`ISBN`)
ON DELETE NO ACTION
ON UPDATE NO ACTION)
ENGINE = InnoDB;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;

create table if not exists Reader_Interest(

order_id int,
customer_id varchar(45) not null,
ISBN varchar(15),
subject_id int,
`subject` varchar(20),
primary key (order_id,customer_id,ISBN,subject_id),
foreign key (order_id) references Orders(order_id),
foreign key (ISBN) references Order_Book(ISBN),
foreign key (subject_id) references `Book_Subject`(subject_id)
);

Queries:

/* Query 1 */
SELECT
Books.ISBN,Books.publisher_number,Books.title,Books.cost_price,Books.selling_price,Order_Book.is_sold,
SUM(Order_Book.quantity) as ytd_sold
FROM Books LEFT JOIN Order_Book
ON Books.ISBN = Order_Book.ISBN
GROUP BY Books.ISBN,Order_Book.is_sold
HAVING Order_Book.is_sold = 1;
/* Query 2 */

SELECT Books.ISBN, Books.publisher_number, Books.title, Books.cost_price, Books.selling_price, Branch_Book_Quantity.branch_id,
Branch_Book_Quantity.quantity, Order_Book.quantity as order_quantity,
(Order_Book.quantity - Branch_Book_Quantity.quantity) as back_order
FROM Books LEFT JOIN Branch_Book_Quantity
ON Books.ISBN = Branch_Book_Quantity.ISBN
LEFT JOIN Order_Book
ON Books.ISBN = Order_Book.ISBN
WHERE Branch_Book_Quantity.branch_id > 0 AND
(Order_Book.quantity - Branch_Book_Quantity.quantity) > 0
GROUP BY Books.ISBN;
/* Query 3 */
SELECT
Customers.customer_id, Customers.first_name, Customers.last_name, Orders.date, Order_Book.order_id,
Order_Book.ISBN, Order_Book.quantity
FROM Customers LEFT JOIN Special_Order
ON Customers.customer_id = Special_Order.customer_id
LEFT JOIN Orders
ON Special_Order.order_id = Orders.order_id
LEFT JOIN Order_Book
ON Orders.order_id = Order_Book.order_id
WHERE Customers.customer_id = 3;

/* Query 4 */
SELECT
Customers.customer_id,Customers.first_name,Customers.last_name,Orders.date,Order_Book.order_id,
Order_Book.ISBN,Order_Book.quantity,Branch_Book_Quantity.branch_id
FROM Customers LEFT JOIN Orders
ON Customers.customer_id = Orders.customer_id
LEFT JOIN Order_Book
ON Orders.order_id = Order_Book.order_id
LEFT JOIN Branch_Book_Quantity
ON Order_Book.ISBN = Branch_Book_Quantity.ISBN
WHERE Customers.customer_id = 3
AND branch_id = 5
AND date BETWEEN "2019-01-01" AND "2019-12-31";
/* Query 5 */
SELECT Branch_Book_Quantity.branch_id,Branch_Book_Quantity.ISBN,Books.cost_price as
branch_sell_price,
Order_Book.quantity,Orders.date,(Books.cost_price * Order_Book.quantity) as total_sales
FROM Branch_Book_Quantity LEFT JOIN Books
ON Branch_Book_Quantity.ISBN = Books.ISBN
LEFT JOIN Order_Book

ON Branch_Book_Quantity.ISBN = Order_Book.ISBN
LEFT JOIN Orders
ON Order_Book.order_id = Orders.order_id
WHERE Branch_Book_Quantity.branch_id = 1
AND Orders.date BETWEEN "2019-01-01" AND "2019-12-31"

AND Order\_Book.is\_sold = 0; /\*this means it has been sold to bookstore \*/

/* Query 6 */
SELECT
publisher_number AS title,
company_name,
MAX(total) AS number_of_backOrder
FROM (
SELECT
publisher_number,
name AS company_name,
COUNT(Publishers_publisher_number) AS total
FROM Publishers
JOIN Bookstore_Publisher_Order ON Publishers_publisher_number = publisher_number
WHERE confirmation = 0
GROUP BY Publishers_publisher_number
) AS Results;
/* Query 7 */

SELECT *
FROM Books
WHERE publisher_number = 1
ORDER BY selling_price;
/* Query 8 */
SELECT *
FROM Branches
WHERE publisher_number IN (
SELECT publisher_number
FROM (
SELECT
publisher_number,
COUNT(publisher_number) AS number_of_branches
FROM Branches
GROUP BY publisher_number
HAVING number_of_branches >= 3) AS publisher_id);
/* Query 9 */
SELECT *
FROM Books
JOIN arrived_books ON Books_ISBN = ISBN
JOIN Inventory USING (inventory_id)

WHERE day_received <= "2019-07-19" AND Books.ISBN = ANY (
SELECT ISBN
FROM Orders
JOIN Order_Book USING (order_id)
WHERE is_sold = 1);
/* Query 10 */
SELECT *
FROM Books
WHERE ISBN IN ( SELECT Books_ISBN
FROM Book_Author
JOIN Authors USING (author_id)

WHERE Authors.name = "C");

Populating Tables 10 Entries:

USE eyc353_1;
INSERT INTO Orders(customer_id, bookstore_id, publisher_name, branch_name, date)
VALUES (1, null, null, null, 2018-01-05),
(2, null, null, null, 2018-01-07),
(null, 1, 2, 1, 2018-03-02),
(null, 1, 4, 2, 2019-01-02),
(1, null, null, null, 2019-01-05),

(3, null, 1, null, null, 2019-02-05),
(2, null, 1, null, null, 2019-03-05),
(4, null, 1, null, null, 2020-01-05),
(null, 1, 2, 3, 2020-02-07),
(null, 1, 5, 1, 2020-03-08);
INSERT INTO Customers(first_name, last_name, address, city, province, postal_code, telephone, email_address, cumulative_purchase_amount)
VALUES ('John', 'Smith', 'aaa', 'Montreal', 'Quebec', 'H3P1V2', '1234567', 'a@gmail.com', 70.5),
('Kasra', 'Rad', 'bbb', 'Montreal', 'Quebec', 'H3H1V2', '1234562', 'b@gmail.com', 80.5),
('Robert', 'Wilson', 'ccc', 'Montreal', 'Quebec', 'H2H1V2', '1234563', 'c@gmail.com', 20.5),
('Michael', 'Anderson', 'ddd', 'Montreal', 'Quebec', 'H3V1V2', '1234564', 'd@gmail.com', 10.2),
('William', 'Jackson', 'eee', 'Montreal', 'Quebec', 'H4V1V2', '1234565', 'e@gmail.com', 7),
('David', 'Perez', 'fff', 'Montreal', 'Quebec', 'H5V1V2', '1234566', 'f@gmail.com', 170.4),
('Richard', 'Lee', 'ggg', 'Montreal', 'Quebec', 'H2P1V2', '1234569', 'g@gmail.com', 90.2),
('Joseph', 'Lewis', 'hhh', 'Montreal', 'Quebec', 'H3P1V2', '1234539', 'h@gmail.com', 40),
('Thomas', 'Young', 'iii', 'Montreal', 'Quebec', 'H4P1V2', '1234549', 'i@gmail.com', 300),
('Daniel', 'Baker', 'jjj', 'Montreal', 'Quebec', 'H3H2P2', '1234559', 'j@gmail.com', 400.58);
INSERT INTO Orders(bookstore_id, publisher_name, brach_name, date)
VALUES (10, 2, 1, "2018-03-02");
INSERT INTO Orders(customer_id, date)
VALUES (1, "2018-09-05"),



(2, "2018-10-07"),
(1, "2019-01-05"),
(3, "2019-02-05"),
(4, "2019-03-05");
INSERT INTO Orders(bookstore_id, publisher_name, brach_name, date)
VALUES (10, 2, 1, "2020-01-05"),
(10, 3, 2, "2020-02-05"),
(10, 4, 3, "2020-03-05");
INSERT INTO Orders(customer_id, date)
VALUES (7, "2020-04-01");
INSERT INTO Order_Book(order_id, ISBN, quantity, is_sold)
VALUES (13, '0-2838-9190-4', 4, 0),
(13, '0-6521-1546-2', 3, 0),
(13, '0-7225-8364-8', 2, 0),
(14, '0-2838-9190-4', 2, 1),
(15, '0-8229-1390-9', 1, 1),
(16, '0-2838-9190-4', 1, 1),
(16, '0-2237-3192-7', 2, 1),

(17, '0-2710-5457-3', 1, 1),
(18, '0-2838-9190-4', 1, 1),
(18, '0-2710-5457-3', 2, 1),
(19, '0-7225-8364-8', 5, 0),
(20, '0-2710-5457-3', 1, 0),
(20, '0-2237-3192-7', 4, 0),
(21, '0-2710-5457-3', 2, 0),

(22, '0-2710-5457-3', 2, 1);

INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('1', '11', '1', '0');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('1', '16', '6', '0');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('1', '19', '2', '1');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('3', '11', '3', '0');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('4', '10', '5', '1');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('4', '13', '7', '1');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('5', '16', '8', '1');
INSERT INTO `eyc353_1`.`Bookstore_Publisher_Order` (`Publishers_publisher_number`, `Bookstore_bookstore_id`, `order_id`, `confirmation`) VALUES ('9', '15', '4', '0');

INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('1', '11', '0-2237-3192-7', '1', '2020-01-02 00:00:00', '1');
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('2', '12', '0-2710-5457-3', '1', '2020-01-03 00:00:00', '1'
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('3', '13', '0-2838-9190-4', '1', '2020-01-04 00:00:00', '0'
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('4', '14', '0-3432-6145-6', '1', '2020-01-05 00:00:00', '0'
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('5', '15', '0-4193-9813-9', '1', '2020-01-06 00:00:00', '1'
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('6', '16', '0-4809-1234-3', '1', '2020-01-07 00:00:00', '0'
);

INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('7', '17', '0-4838-6782-9', '1', '2020-01-08 00:00:00', '1')
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('8', '18', '0-6034-3910-1', '1', '2020-01-09 00:00:00', '1')
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('9', '19', '0-6521-1546-2', '2', '2020-01-10 00:00:00', '1')
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('10', '10', '0-1188-0050-7', '1', '2020-01-01 00:00:00', '0')
);
INSERT INTO `eyc353_1`.`Inventory` (`inventory_id`, `bookstore_id`, `ISBN`, `quantity`, `day_received`, `is_reserved`) VALUES ('11', '10', '0-2838-9190-4', '3', '2020-07-13 08:12:00', '1')
);

INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, 'address', 'postal_code', 'president') VALUES ('10', 'a', '11111111', 'a@hotmail.com', '123 street', 'a11222', 'Mr.Burns'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, 'address', 'postal_code', 'president') VALUES ('11', 'b', '2222222', 'b@hotmail.com', '222 street', 'b11222', 'Peter'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, 'address', 'postal_code', 'president') VALUES ('12', 'c', '3333333', 'c@hotmail.com', '333 street', 'c11222', 'Yugi Motto'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, 'address', 'postal_code', 'president') VALUES ('13', 'd', '4444444', 'd@hotmail.com', '444 street', 'd11222', 'Evan'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, 'address', 'postal_code', 'president') VALUES ('14', 'e', '5555555', 'e@hotmail.com', '555 street', 'e11222', 'Goku'
);

INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, `address`, `postal_code`, `president`) VALUES ('15', 'f', '6666666', 'f@hotmail.com', '666 street', 'f11222', 'Kien'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, `address`, `postal_code`, `president`) VALUES ('16', 'g', '7777777', 'g@hotmail.com', '777 street', 'g11222', 'Kasra'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, `address`, `postal_code`, `president`) VALUES ('17', 'h', '8888888', 'h@hotmail.com', '888 street', 'h11222', 'Pierre'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, `address`, `postal_code`, `president`) VALUES ('18', 'i', '9999999', 'i@hotmail.com', '999 street', 'i11222', 'Kobe'
);
INSERT INTO `eyc353_1`.`Bookstore` (`bookstore_id`, `name`, `telephone`, `email_address`, `address`, `postal_code`, `president`) VALUES ('19', 'j', '0', 'j@hotmail.com', '000 street', 'j11222', 'Brenden'
);

--

insert authors*****888
-- insert into Authors (name)
-- values
-- ("A"),("B"),("C"),("D"),("E"),("F"),("G"),("H"),("I"),("M");
-- insert publisher *****
-- insert into Publishers(publisher_number,name,telephone,email_address,address,city,province,postal_code,website)
-- values
-- (1,"Ken News1",438999990,"ken@publisher1.ca","123 westmount","westmount","quebec","h3h 1r7","www.kennews1.ca"),
-- (2,"Ken News2",438999991,"ken@publisher2.ca","124 westmount","westmount","quebec","h3h 1r8","www.kennews2.ca"),
-- (3,"Ken News3",438999992,"ken@publisher3.ca","153 westmount","westmount","quebec","h3h 1r9","www.kennews3.ca"),
-- (4,"Ken News4",438999993,"ken@publisher4.ca","163 westmount","westmount","quebec","h3h 1t7","www.kennews4.ca"),
-- (5,"Ken News5",438999994,"ken@publisher5.ca","173 westmount","westmount","quebec","h3h 1x1","www.kennews5.ca"),
-- (6,"Ken News6",438999995,"ken@publisher6.ca","183 westmount","westmount","quebec","h3h 1r3","www.kennews6.ca"),
-- (7,"Ken News7",438999996,"ken@publisher7.ca","193 westmount","westmount","quebec","h3h 1r4","www.kennews7.ca"),
-- (8,"Ken News8",438999997,"ken@publisher8.ca","423 westmount","westmount","quebec","h3h 1a1","www.kennews8.ca"),
-- (9,"Ken News9",438999998,"ken@publisher9.ca","223 westmount","westmount","quebec","h3h 1b2","www.kennews9.ca"),

-- (10,"Ken News10",438999999,"ken@publisher10.ca","495 westmount","westmount","quebec","h3h 1c9","www.kennews10.ca");
-- insert books info *****
-- insert into Books(ISBN,publisher_number,title,cost_price,selling_price)
-- values
-- ("0-7915-3557-6",1,"How to become millionaire at 10",11.5,20),
-- ("0-2838-9190-4",1,"How to become millionaire at 11",12.5,21),
-- ("0-4838-6782-9",1,"How to become millionaire at 12",13.5,22),
-- ("0-6521-1546-2",2,"How to become millionaire at 13",14.5,23),
-- ("0-7225-8364-8",2,"How to become millionaire at 14",15.5,24),
-- ("0-9583-3711-X",2,"How to become millionaire at 15",16.5,25),
-- ("0-8229-1390-9",3,"How to become millionaire at 16",17.5,26),
-- ("0-4193-9813-9",3,"How to become millionaire at 17",18.5,27),
-- ("0-2237-3192-7",4,"How to become millionaire at 18",19.5,28),
-- ("0-6950-6671-4",4,"How to become millionaire at 19",20.5,29),
-- ("0-1188-0050-7",5,"How to become millionaire at 20",21.5,30),
-- ("0-2710-5457-3",6,"How to become millionaire at 21",22.5,31),
-- ("0-4809-1234-3",7,"How to become millionaire at 22",23.5,32),
-- ("0-6034-3910-1",8,"How to become millionaire at 23",24.5,33),
-- ("0-3432-6145-6",9,"How to become millionaire at 24",25.5,34),
-- ("0-6904-3082-5",10,"How to become millionaire at 25",26.5,35);



-- *****\
-- insert author for the books
-- insert into Book_Author(Books_ISBN,author_id)
-- values
-- ("0-7915-3557-6",1),
-- ("0-7915-3557-6",2),
-- ("0-7915-3557-6",3),
-- ("0-2838-9190-4",1),
-- ("0-4838-6782-9",4),
-- ("0-6521-1546-2",4),
-- ("0-7225-8364-8",5),
-- ("0-9583-3711-X",5),
-- ("0-9583-3711-X",6),
-- ("0-9583-3711-X",7),
-- ("0-8229-1390-9",6),
-- ("0-4193-9813-9",7),
-- ("0-2237-3192-7",8),
-- ("0-6950-6671-4",8),
-- ("0-1188-0050-7",8),
-- ("0-2710-5457-3",9),
-- ("0-2710-5457-3",8),
-- ("0-2710-5457-3",7),

-- ("0-2710-5457-3",6),
-- ("0-4809-1234-3",3),
-- ("0-6034-3910-1",8),
-- ("0-3432-6145-6",9),
-- ("0-6904-3082-5",10);
--
-- *****
-- insert subjects table
-- insert into Subjects(name)
-- values
-- ("science"),
-- ("science-fiction"),
-- ("fiction"),
-- ("self-help"),
-- ("romance"),
-- ("action"),
-- ("adventure"),
-- ("classic"),
-- ("novel"),
-- ("autobiography");

-- -- *****
-- -- added subject to books
-- insert into Book_Subject(books_isbn,subject_id)
-- values
-- ("0-7915-3557-6",1),
-- ("0-7915-3557-6",2),
-- ("0-7915-3557-6",3),
-- ("0-2838-9190-4",1),
-- ("0-4838-6782-9",4),
-- ("0-6521-1546-2",4),
-- ("0-7225-8364-8",5),
-- ("0-9583-3711-X",5),
-- ("0-9583-3711-X",6),
-- ("0-9583-3711-X",7),
-- ("0-8229-1390-9",6),
-- ("0-4193-9813-9",7),
-- ("0-2237-3192-7",8),
-- ("0-6950-6671-4",8),
-- ("0-1188-0050-7",8),
-- ("0-2710-5457-3",9),
-- ("0-2710-5457-3",8),
-- ("0-2710-5457-3",7),

-- ("0-2710-5457-3",6),
-- ("0-4809-1234-3",3),
-- ("0-6034-3910-1",8),
-- ("0-3432-6145-6",9),
-- ("0-6904-3082-5",10);
-- *****
-- insert Branches
-- insert into Branches(branch_id,publisher_number, name, address, rep_name, rep_email, is_head_office)
-- values (1,1,"Konami", "102 Greenview St. Winston Salem, NC 27103", "Hideo Kojima", "h_kojima@gmail.com", 0),
-- (2,5,"EA", "1 Arrowhead Ave. Bangor, ME 04401", "John Madden", "jm@ea.com", 0),
-- (3,3,"Funimation", "8059 Prince St. Great Falls, MT 59404", "Janet Jackson", "head_chief_jackson@funimation.com", 1),
-- (4,9,"Penguin Killers", "85 Poplar St. Noblesville, IN 46060", "Michael Myers", "totally_not_a_stalker@penguinkillers.uk", 0),
-- (5,10,"Fake Acid Pools", "8840 West Dogwood St. Valdosta, GA 31601", "Rick Sanchez", "the_rick@plumbus.org", 1),
-- (6,7,"Nacho Libre", "288 Shipley Street Vienna, VA 22180", "Jack Black", "blackjack76@gmail.com", 0),
-- (7,2,"Cow Chop", "35 North Court Torrance, CA 90505", "James Wilson", "uberhaxornova@hotmail.com", 0),
-- (8,4,"Flex Tape", "159 Cardinal St. Garfield, NJ 07026", "Phil Swift", "alottadamage@flex_seal.com", 1),
-- (9,8,"I love trains", "9022 Iroquois St. Chapel Hill, NC 27516", "Sheldon Cooper", "perfect_being@msn.com", 1),

-- (10,6,"Speedwagon Inc.", "8232 Honey Creek St. Cedar Falls, IA 50613", "Robert E. O. Speedwagon", "checkered_hat@speedwagon.us", 1);
-- *****
-- insert Branch_Book_Quantity
-- insert into Branch_Book_Quantity(branch_id,ISBN,quantity)
-- values (1,"0-1188-0050-7",10),
-- (1,"0-4809-1234-3",10),
-- (3,"0-2838-9190-4",30),
-- (9,"0-3432-6145-6",5),
-- (4,"0-8229-1390-9",12),
-- (10,"0-6521-1546-2",10),
-- (4,"0-1188-0050-7",2),
-- (5,"0-3432-6145-6",45);
-- *****
-- insert Bookstore_Publisher_Order
*****
-- insert into Bookstore_Publisher_Order(Publishers_publisher_number, Bookstore_bookstore_id, order_id,confirmation)
-- values (1,11,1,0),
-- (1,19,2,1),

-- (3,11,3,0),
-- (9,15,4,0),
-- (4,10,5,1),
-- (10,16,6,0),
-- (4,13,7,1),
-- (5,16,8,1);
-- *****
-- STATUS: Ken updated 6 tables: Book,Book_author,Author,Subject,Book_subject and publisher. 6/16 tables
-- 10 tables remaining are: Bookstore->inventory -> arrived_books; Book_publisher_order; Branch_book_quantity
-- branches, customers, orders,order_book,special_order
-- *****
-- inserting reader-interest
-- insert into Reader_Interest(order_id,customer_id,ISBN,subject_id,subject)
-- values
-- (14,1,"0-2838-9190-4",1,"science"),
-- (15,2,"0-8229-1390-9",6,"romance"),
-- (16,1,"0-2237-3192-7",8,"classic"),
-- (16,1,"0-2838-9190-4",1,"science"),

-- (17,3,"0-2710-5457-3",6,"action"),
-- (17,3,"0-2710-5457-3",7,"adventure"),
-- (17,3,"0-2710-5457-3",8,"classic"),
-- (17,3,"0-2710-5457-3",9,"novel"),
-- (18,4,"0-2710-5457-3",6,"action"),
-- (18,4,"0-2710-5457-3",7,"adventure"),
-- (18,4,"0-2710-5457-3",8,"classic"),
-- (18,4,"0-2710-5457-3",9,"novel"),
-- (18,4,"0-2838-9190-4",1,"science"),
-- (22,7,"0-2710-5457-3",6,"action"),
-- (22,7,"0-2710-5457-3",7,"adventure"),
-- (22,7,"0-2710-5457-3",8,"classic"),
-- (22,7,"0-2710-5457-3",9,"novel");
--

Relationship Count query:

```
SELECT Count(*) FROM eyc353_1.arrived_books;
```

Output: 11

```
SELECT Count(*) FROM eyc353_1.Reader_Interest;
```

Output: 17

```
SELECT Count(*) FROM eyc353_1.Orders;
```

Output: 18

```
SELECT Count(*) FROM eyc353_1.Book_Subject;
```

Output: 23

```
SELECT Count(*) FROM eyc353_1.Book_Author;
```

Output: 23