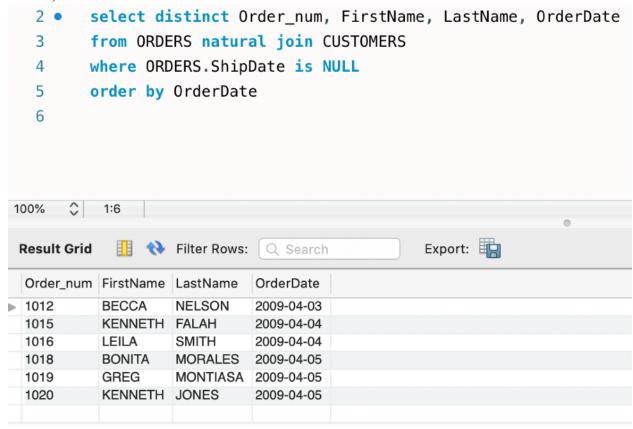
CSCD 327 Lab #4 (15 points)

Use database YourUsername_3 to complete the following queries in SQL. Please include both the query statements and the query results in your submission.

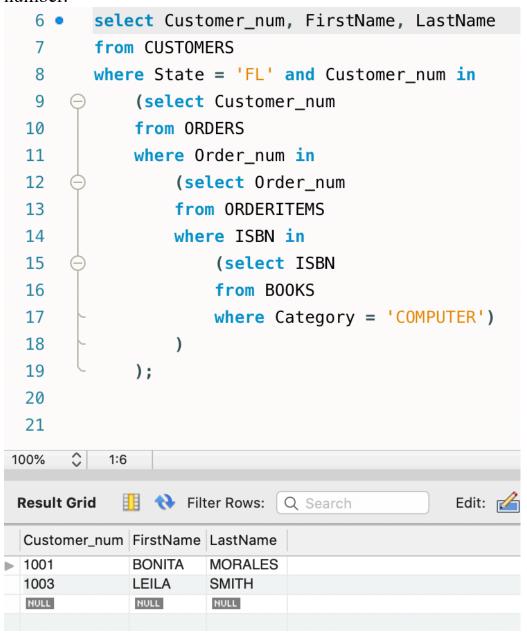
Section 1: Multiple-table Queries

1. Determine which orders haven't yet shipped and the name of the customer who placed the order. Sort the results by the date on which the order was placed. List the order number, the corresponding customer name, and order date.



2. Find a list of all customers who live in the state of FL and have ordered books about COMPUTERs (i.e., category = 'COMPUTER'). List the

customer number, the customer name, and the corresponding order number.



3. Determine which books customer *JAKE LUCAS* has purchased. If he has purchased multiple copies of the same book, unduplicate the results. List

the book title.

```
20 •
         select Title
  21
         from BOOKS
         where ISBN in
  22
  23
              (select ISBN
  24
              from ORDERITEMS
  25
             where Order_num in
                  (select Order_num
  26
                  from ORDERS
  27
  28
                  where Customer_num in
  29
                      (select Customer_num
                      from CUSTOMERS
  30
                      where FirstName = 'JAKE' and LastName = 'LUCAS')
  31
  32
                  )
  33
              );
  34
       14:23
100%
                                                Export:
            Filter Rows: Q Search
 Result Grid
 Title
PAINLESS CHILD-REARING
  HOW TO MANAGE THE MANAGER
```

4. Determine the profit of each book sold to $JAKE\ LUCAS$, using the actual price the customer paid (profit = PaidEach - Cost). Sort the results by order date first. If more than one book was ordered on the same day, sort

```
38 •
        select Title, Cost, PaidEach, concat(PaidEach - Cost) as Profit
        from BOOKS natural join ORDERITEMS natural join ORDERS
 39
        where Customer_num in
 40
 41
             (select Customer_num
             from CUSTOMERS
 42
              where FirstName = 'JAKE' and LastName = 'LUCAS')
 43
        order by OrderDate;
 44
 45
 46
100%
      20:44
           Filter Rows: Q Search
                                               Export:
Result Grid
                           Cost PaidEach Profit
 HOW TO MANAGE THE MANAGER 15.40
                                31.95
                                        16.55
 PAINLESS CHILD-REARING
                           48.00
                                85.45
                                        37.45
 PAINLESS CHILD-REARING
                           48.00 85.45
                                        37.45
```

the results by profit amount in descending order. List the book title, the order date, and the corresponding profit.

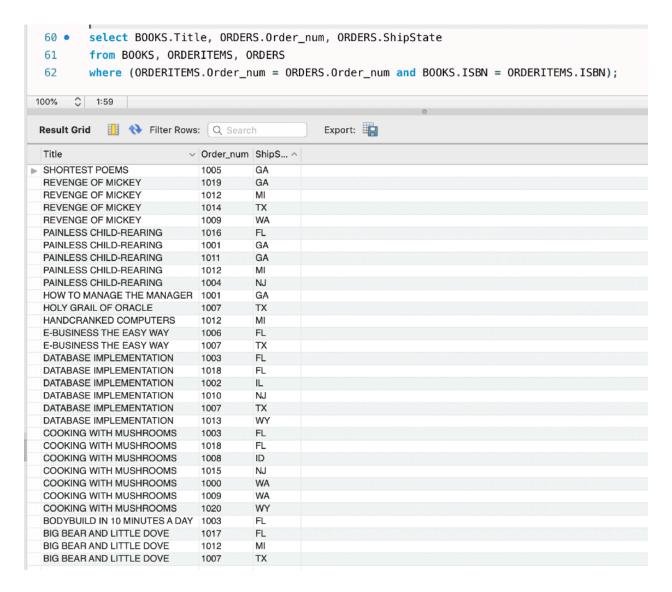
5. Determine which books were written by an author of last name *ADAMS*? List the isbn and the title of the book.



6. Identify the authors of the books *BECCA NELSON* ordered. List the name of the author and the book title.

```
select concat(AUTHOR.Lname, " ", AUTHOR.Fname) as Author, Title
  50 •
  51
         from CUSTOMERS, ORDERS, BOOKS, ORDERITEMS, BOOKAUTHOR, AUTHOR
         where CUSTOMERS.Customer_num = ORDERS.Customer_num
  52
         and ORDERS.Order_num = ORDERITEMS.Order_num
  53
         and ORDERITEMS.ISBN = BOOKS.ISBN
         and BOOKS.ISBN = BOOKAUTHOR.ISBN
  55
  56
         and BOOKAUTHOR.AuthorID = AUTHOR.AuthorID
         and CUSTOMERS.LastName = 'NELSON'
  57
 58
         and CUSTOMERS.FirstName = 'BECCA';
100%
      ♦ 64:50
            III 💎 Filter Rows: 🔾 Search
                                               Export:
 Result Grid
 Author
 ROBINSON ROBERT BIG BEAR AND LITTLE DOVE
 WHITE WILLIAM HANDCRANKED COMPUTERS
 WHITE LISA
                 HANDCRANKED COMPUTERS
             PAINLESS CHILD-REARING
 BAKER JACK
                PAINLESS CHILD-REARING
 FIELDS OSCAR
▶ ROBINSON ROBERT PAINLESS CHILD-REARING
              REVENGE OF MICKEY
 JONES JANICE
```

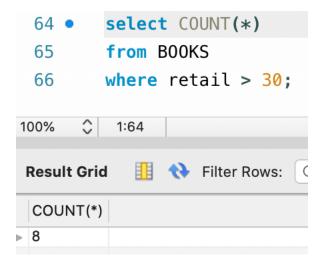
7. Display a list of all books. If a book has been ordered by a customer, list the book title, and the corresponding order number and the state in which the customer resides. If a book has not been ordered by a customer, only list the book title.



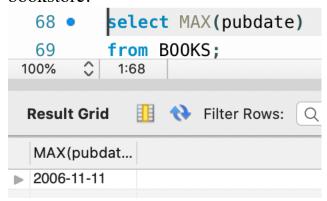
was confused on null part but got the rest at least.

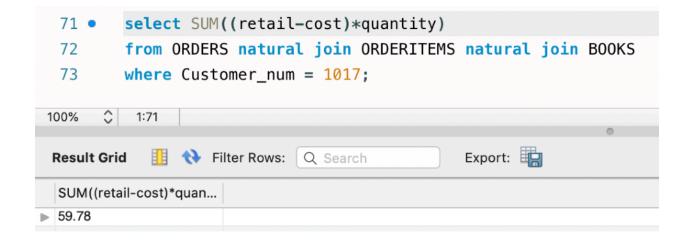
Section 2: Aggregate Functions

8. Find the number of books which have a retail price of \$30.00 or more.

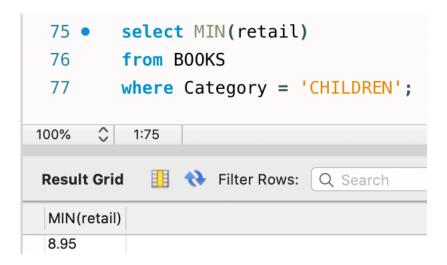


9. Display the most recent publication date among all books owned by the bookstore.

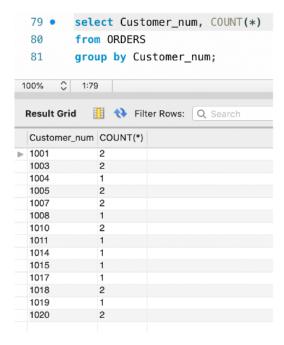




- 10. Determine the total profit generated by sales to customer 1017. [Note: total profit = sum((retail-cost)*quantity)]
- 11. List the retail price of the least expensive book in the *CHILDREN* category.

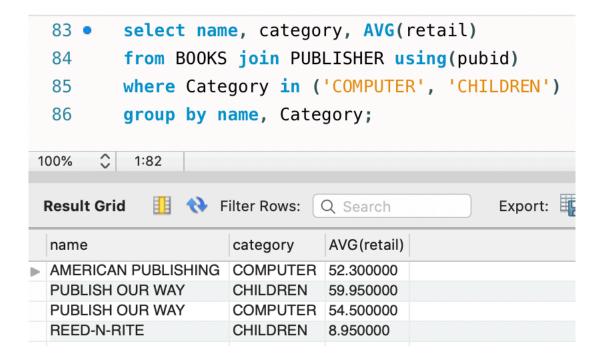


12. Determine how many orders have been placed by each customer. Do not include the customers who haven't placed any order. Display the

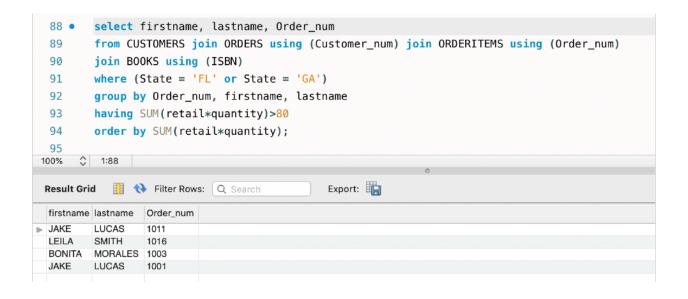


customer number, and the number of orders placed by the customer.

13. Determine the average retail price of books by publisher and category (i.e., group by publisher name and book category). Include only the (publisher, category) pair when the corresponding average retail price is more than \$50.



14. List the customers living in *GA* or *FL* who have placed an order totaling more than \$80 (hint: use "group by order_num having ..."). List the name of the customer, the order number, and the corresponding order total. Sort the result by the order total in ascending order. [Note: *Order total* = sum(retail*quantity)].





15. What's the retail price of the most expensive book written by *LISA WHITE*.