## Ethan Tuning 11/7/16 CSCD327 Lab#5

```
1.
   1⊖ SELECT Title, Retail
   2 FROM BOOKS
   3 WHERE Retail < (SELECT avg(Retail)</pre>
                   FROM BOOKS)
                              Retail
   ► HOW TO GET FASTER PIZZA
                             29.95
     THE WOK WAY TO COOK
                             28.75
     REVENGE OF MICKEY
                             22.00
     BODYBUILD IN 10 MINUTES A DAY 30.95
     HANDCRANKED COMPUTERS
                             25.00
     SHORTEST POEMS
                             39.95
     COOKING WITH MUSHROOMS
                             19.95
     BIG BEAR AND LITTLE DOVE
                             8.95
     HOW TO MANAGE THE MANAGER 31.95
2.
1⊝ SELECT Title, Cost, Category
  2 FROM BOOKS
  3 GROUP BY Category
  4 HAVING Cost < (SELECT avg(Cost)
                  FROM BOOKS)
                             Cost Category
  HOW TO MANAGE THE MANAGER 15.40 BUSINESS
    HANDCRANKED COMPUTERS
                            21.80 COMPUTER
    THE WOK WAY TO COOK
                            19.00 COOKING
    REVENGE OF MICKEY
                            14.20 FAMILY LIFE
    BODYBUILD IN 10 MINUTES A DAY 18.75 FITNESS
    SHORTEST POEMS
                            21.85 LITERATURE
    HOW TO GET FASTER PIZZA
                            17.85 SELF HELP
3.
혈호 보 내 그 나는
                        -₹ ₹ ■ ■
 1⊖ SELECT Order_num
 2 FROM ORDERS
    WHERE ShipState = (SELECT ShipState
                         FROM ORDERS
 4
 5
                          WHERE Order_num = "1014")
   Order_num
        1,007
        1,014
```

```
4.
1⊝ SELECT Order_num, sum(Quantity * PaidEach) Total
 2 FROM ORDERITEMS
 3 GROUP BY Order_num
 4 HAVING sum(Quantity * PaidEach) > (SELECT sum(Quantity * PaidEach)
                                      FROM ORDERITEMS
                                      WHERE Order_num = "1002")
    Order num
              Total
       1,001 117.40
       1,004 170.90
        1,007 335.85
       1,012 166.40
5.
1⊖ SELECT DISTINCT Title
   FROM ORDERS NATURAL JOIN ORDERITEMS NATURAL JOIN BOOKS
   WHERE ISBN NOT IN (SELECT ISBN
                     FROM ORDERS o JOIN ORDERITEMS oi
                     ON o.Order_num = oi.Order_num
5
                     WHERE o.Order_num = oi.Order_num AND o.Customer_num = "1007")
6
  Title
BODYBUILD IN 10 MINUTES A DAY
  HANDCRANKED COMPUTERS
  SHORTEST POEMS
  PAINLESS CHILD-REARING
  COOKING WITH MUSHROOMS
  HOW TO MANAGE THE MANAGER
6.
 1 SELECT ShipCity, ShipState, (ShipDate - OrderDate) AS Shipping_Delay
 2 FROM ORDERS
 3 WHERE ShipDate - OrderDate = (SELECT MAX(ShipDate - OrderDate)
                                  FROM ORDERS)
 4
   ShipCity ShipState Shipping_Delay
 ► SEATTLE WA
                           71.00
7.
SELECT DISTINCT Customer_num
 FROM ORDERS NATURAL JOIN ORDERITEMS NATURAL JOIN BOOKS
 WHERE Retail NOT IN (SELECT MIN(Retail)
                   FROM BOOKS)
 Customer_num
       1,005
       1,017
       1,007
       1,018
       1,001
       1,010
       1,020
       1,003
       1,004
       1,008
       1,011
       1,019
       1,014
```

```
1 SELECT DISTINCT Customer_num
  FROM ORDERS NATURAL JOIN ORDERITEMS
  WHERE ISBN IN (SELECT ISBN
                FROM ORDERITEMS NATURAL JOIN BOOKAUTHOR NATURAL JOIN AUTHOR
                WHERE Lname = "AUSTIN" AND Fname = "JAMES")
  Customer_num
        1,001
       1,007
        1,011
        1,014
        1,019
9.
  1⊖ SELECT name
  2 FROM instructor
 3 WHERE salary = (SELECT MAX(salary)
                    FROM instructor)
    name
 ▶ Einstein
10.
⊝ SELECT course_id, sec_id
PROM section
  WHERE sec_id = (SELECT MAX(sec_id)
                   FROM takes)
 course_id sec_id
 CS-190 2
 CS-319 2
11.
19 SELECT dept_name, MAX(salary)
2 FROM instructor
3 WHERE salary = (SELECT MIN(salary)
                    FROM instructor)
   dept_name MAX(salary)
▶ Music
             40,000.00
12.
1 SELECT DISTINCT category_name
2 FROM categories
3 WHERE categories.category_id IN (SELECT products.category_id
                                      FROM products)
4
  category_name
 Basses
   Drums
  Guitars
```

```
13.
```

```
1⊝ SELECT product_name, list_price
 2 FROM products
 3 WHERE list_price > (SELECT AVG(list_price)
                          FROM products)
 4
   product_name | list_price
► Gibson Les Paul 1,199.00
   Gibson SG
                  2,517.00
14.
 19 SELECT category_name
 2 FROM categories
    WHERE NOT EXISTS(SELECT category_id
 3
                   FROM products
                   WHERE categories.category_id = products.category_id)
   category_name
Keyboards
15.
1⊖ SELECT email_address, order_id, order_date
2 FROM customers AS cust NATURAL JOIN orders
   WHERE order_date = (SELECT MIN(order_date)
                         FROM orders AS ord
5
                         WHERE cust.customer_id = ord.customer_id)
  email_address
                            order_id
                                              order_date
                                  1 03/28/2012 09:40:28
  allan.sherwood@yahoo.com
                                  2 03/28/2012 11:23:20
  barryz@gmail.com
  christineb@solarone.com
                                  4 03/30/2012 15:22:31
  david.goldstein@hotmail.com
                                  5 03/31/2012 05:43:11
  erinv@gmail.com
                                  6 03/31/2012 18:37:22
  frankwilson@sbcglobal.net
                                  7 04/01/2012 23:11:12
                                  8 04/02/2012 11:26:38
  gary_hernandez@yahoo.com
```