CPRG 250
Lab Module 4 Part 6

Create the SQL script for the following questions using the JustLee Books database.
Create a spool file that includes all of your SQL commands along with the results.
Submit the script AND spool file via D2L.

0. Add the following lines to your script:
> set echo on
> set linesize 132
> set pagesize 66

1. LIST the first and last names of all customers who reside in the same state as Leila Smith. Leila Smith should not appear in the output. The only information that can be hard coded is *Leila Smith* name. Order the output by last name and then first name. Expected output:

```
FIRSTNAME   LASTNAME
----------  ----------
BONITA      MORALES
NICHOLAS    NGUYEN
STEVE       SCHELL

3 rows selected.
```

2. LIST the last name of all customers who ordered books that had a retail price greater than the average retail price of all books in the store. Remove any duplicate books ordered by the same customer. Include the first name, last name, title , retail price and the average retail price. Sort by lastname and title. Expected output;

```
LASTNAME    TITLE                            RETAIL      Avg
----------  ------------------------------  ----------  ----------
FALAH       PAINLESS CHILD-REARING           89.95 40.9821429
GIANA       DATABASE IMPLEMENTATION          55.95 40.9821429
GIANA       E-BUSINESS THE EASY WAY           54.5 40.9821429
GIANA       HOLY GRAIL OF ORACLE             75.95 40.9821429
LEE         DATABASE IMPLEMENTATION          55.95 40.9821429
LUCAS       PAINLESS CHILD-REARING           89.95 40.9821429
MCGOVERN    DATABASE IMPLEMENTATION          55.95 40.9821429
MORALES     DATABASE IMPLEMENTATION          55.95 40.9821429
NELSON      PAINLESS CHILD-REARING           89.95 40.9821429
SMITH       DATABASE IMPLEMENTATION          55.95 40.9821429
SMITH       E-BUSINESS THE EASY WAY           54.5 40.9821429
SMITH       PAINLESS CHILD-REARING           89.95 40.9821429

12 rows selected.

SQL>
```

4. Find the most recent book that each author has written.

```
Author                Last Book                         Date Pub
--------------------  --------------------------------  ---------
Juan Adams            Database Implementation           04-JUN-03
James Austin          Holy Grail Of Oracle              31-DEC-05
Jack Baker            Painless Child-Rearing            17-JUL-04
Oscar Fields          Painless Child-Rearing            17-JUL-04
Janice Jones          E-Business The Easy Way           01-MAR-06
Tamara Kzochsky       Building A Car With Toothpicks     18-MAR-06
Tina Peterson         Database Implementation           04-JUN-03
Lisa Porter           Bodybuild In 10 Minutes A Day     21-JAN-05
Robert Robinson       Big Bear And Little Dove          08-NOV-05
Sam Smith             How To Get Faster Pizza           11-NOV-06
Lisa White            Shortest Poems                    01-MAY-05
William White         Handcranked Computers             21-JAN-05

12 rows selected.
```

4a. Solve using an uncorrelated query (no connection between outer query and inner query)

4b. Solve using a correlated query (use a connection between the outer query and inner query, suggested connection is the authorid)

5. Assume you have Java application with a form that displays 10 items per page. This form displays customer and their orders. Data is sorted based on customer activity (e.g. the customer with the most orders is first) with a secondary sort criteria being the last name and then first name. Write a query to display the 2nd page of data.

```
FIRSTNAME  LASTNAME          NUM
---------- ---------- ----------
BECCA      NELSON              1
THOMAS     PIERSON             1
STEVE      SCHELL              1
JENNIFER   SMITH               1

4 rows selected.
```

Bonus 6. DISPLAY the customers with the most expensive order for each customer. Here is a list of values for all customer orders:

```
CUSTOMER#     ORDER# Order Value
---------- ---------- -----------
      1001       1003      106.85
      1001       1018        75.9
      1003       1016       85.45
      1003       1006        54.5
      1004       1008        39.9
      1005       1009       41.95
      1005       1000       19.95
      1007       1007      335.85
      1007       1014          44
      1008       1020       19.95
      1010       1001       117.4
      1010       1011       85.45
      1011       1002       111.9
      1014       1013       55.95
      1015       1017        17.9
      1017       1012       166.4
      1018       1005       39.95
      1018       1019          22
      1019       1010       55.95
      1020       1004       170.9
      1020       1015       19.95

21 rows selected.
```

You must select the highest-valued order for each customer. Expected output:

```
CUSTOMER#     ORDER# Value of Largest Order
---------- ---------- ----------------------
      1001       1003                  106.85
      1003       1016                   85.45
      1004       1008                    39.9
      1005       1009                   41.95
      1007       1007                  335.85
      1008       1020                   19.95
      1010       1001                   117.4
      1011       1002                   111.9
      1014       1013                   55.95
      1015       1017                    17.9
      1017       1012                   166.4
      1018       1005                   39.95
      1019       1010                   55.95
      1020       1004                   170.9

14 rows selected.
```