Homework to return

Exercises : joins

Goals :

- Make SELECT SQL queries involving multiple tables.
- Using joins between tables.

1. Display each publisher will all its employees (name, last name, first name, and title).

```
publisher             last name  first name title
--------------------- ---------- ---------- -----------------------
Algodata Infosystems  Afonso     Pedro      Designer
Algodata Infosystems  Cruz       Aria       Productions Manager
Algodata Infosystems  Larsson    Maria      Marketing Manager
Algodata Infosystems  Latimer    Yoshi      Editor
Algodata Infosystems  Ottlieb    Sven       Publisher
Algodata Infosystems  Paolino    Miguel     Operations Manager
Algodata Infosystems  Parente    Paula      Public Relations Manager
Binnet & Hardley      Accorti    Paolo      Sales Representative
Binnet & Hardley      Ashworth   Victoria   Managing Editor
Binnet & Hardley      Bennett    Helen      Editor
Binnet & Hardley      Brown      Lesley     Marketing Manager
Binnet & Hardley      Domingues  Anabela    Public Relations Manager
Binnet & Hardley      Franken    Peter      Productions Manager
Binnet & Hardley      Henriot    Paul       Publisher
Five Lakes Publishing Muller     Rita       Publisher
GGG&G                 Labrune    Janine     Publisher
Lucerne Publishing    Hernadez   Carlos     Publisher
Lucerne Publishing    Jablonski  Karla      Acquisitions Manager
Lucerne Publishing    Koskitalo  Pirkko     Productions Manager
Lucerne Publishing    McKenna    Patricia   Operations Manager
New Moon Books        Ibsen      Palle      Marketing Manager
New Moon Books        Josephs    Karin      Designer
New Moon Books        Karttunen  Matti      Managing Editor
New Moon Books        Lebihan    Laurence   Publisher
New Moon Books        Mendel     Roland     Operations Manager
New Moon Books        O'Rourke   Timothy    Sales Representative
Scootney Books        Chang      Francisco  Chief Financial Officier
------                -----             ----          ---- ----          --
Scootney Books        Devon      Ann        Business Operations Manager

(43 row(s) affected)
```

2. **Display the title of each book, with the name(s), city, and state of the stores where the book was sold.**

```
title                Store                city                 state
-------------------- -------------------- -------------------- ----
But Is It User Frien Bookbeat             Portland             OR
Computer Phobic AND  Doc-U-Mat: Quality L Remulade             WA
Cooking with Compute Bookbeat             Portland             OR
Emotional Security:  Doc-U-Mat: Quality L Remulade             WA
Fifty Years in Bucki News & Brews         Los Gatos            CA
Is Anger the Enemy?  Doc-U-Mat: Quality L Remulade             WA
Is Anger the Enemy?  Eric the Read Books  Seattle              WA
Is Anger the Enemy?  Barnum's             Tustin               CA
Is Anger the Enemy?  News & Brews         Los Gatos            CA
Life Without Fear    Doc-U-Mat: Quality L Remulade             WA
Onions, Leeks, and G News & Brews         Los Gatos            CA
Prolonged Data Depri Doc-U-Mat: Quality L Remulade             WA
Secrets of Silicon V Barnum's             Tustin               CA
Silicon Valley Gastr Fricative Bookshop   Fremont              CA
Straight Talk About  Fricative Bookshop   Fremont              CA
Sushi, Anyone?       News & Brews         Los Gatos            CA
The Busy Executive's Eric the Read Books  Seattle              WA
The Busy Executive's Bookbeat             Portland             OR
The Gourmet Microwav Bookbeat             Portland             OR
The Gourmet Microwav Doc-U-Mat: Quality L Remulade             WA
You Can Combat Compu Fricative Bookshop   Fremont              CA

(21 row(s) affected)
```

3. **Display all authors (first and last name concatenated) with the title of the books they authored sorted by first and last name.**

```
author                  title
----------------------- -----------------------------------------------------
Abraham Bennet          The Busy Executive's Database Guide
Akiko Yokomoto          Sushi, Anyone?
Albert Ringer           Is Anger the Enemy?
Albert Ringer           Life Without Fear
Ann Dull                Secrets of Silicon Valley
Anne Ringer             Is Anger the Enemy?
Anne Ringer             The Gourmet Microwave
Burt Gringlesby         Sushi, Anyone?
Charlene Locksley       Emotional Security: A New Algorithm
Charlene Locksley       Net Etiquette
Cheryl Carson           But Is It User Friendly?
Dean Straight           Straight Talk About Computers
Innes del Castillo      Silicon Valley Gastronomic Treats
Johnson White           Prolonged Data Deprivation: Four Case Studies
Livia Karsen            Computer Phobic AND Non-Phobic Individuals: Behavior Va
Marjorie Green          The Busy Executive's Database Guide
Marjorie Green          You Can Combat Computer Stress!
Michael O'Leary         Cooking with Computers: Surreptitious Balance Sheets
Michael O'Leary         Sushi, Anyone?
Michel DeFrance         The Gourmet Microwave
Reginald Blotchet-Halls Fifty Years in Buckingham Palace Kitchens
Sheryl Hunter           Secrets of Silicon Valley
Stearns MacFeather      Cooking with Computers: Surreptitious Balance Sheets
Stearns MacFeather      Computer Phobic AND Non-Phobic Individuals: Behavior Va
Sylvia Panteley         Onions, Leeks, and Garlic: Cooking Secrets of the Medit

(25 row(s) affected)
```

4. Display the first and last name of each author who has written at least one book, as well as the amounth of books they have written.

```
au_fname             au_lname                               number
-------------------- -------------------------------------- -----------
Abraham              Bennet                                 1
Reginald             Blotchet-Halls                         1
Cheryl               Carson                                 1
Michel               DeFrance                               1
Innes                del Castillo                           1
Ann                  Dull                                   1
Marjorie             Green                                  2
Burt                 Gringlesby                             1
Sheryl               Hunter                                 1
Livia                Karsen                                 1
Charlene             Locksley                               2
Stearns              MacFeather                             2
Michael              O'Leary                                2
Sylvia               Panteley                               1
Albert               Ringer                                 2
Anne                 Ringer                                 2
Dean                 Straight                               1
Johnson              White                                  1
Akiko                Yokomoto                               1

(19 row(s) affected)
```

5. Display the title of each book, with the publishers name, and the author's last name concatenated with the first letter of their last name, ordered in descending alphabetic order.

```
title                                      publisher            author
------------------------------------------ -------------------- ----------------
But Is It User Friendly?                   Algodata Infosystems Carson C.
Computer Phobic AND Non-Phobic Individuals: B Binnet & Hardley  MacFeather S.
Computer Phobic AND Non-Phobic Individuals: B Binnet & Hardley  Karsen L.
Cooking with Computers: Surreptitious Balance Algodata Infosystems O'Leary M.
Cooking with Computers: Surreptitious Balance Algodata Infosystems MacFeather S.
Emotional Security: A New Algorithm        New Moon Books       Locksley C.
Fifty Years in Buckingham Palace Kitchens  Binnet & Hardley     Blotchet-Halls R.
Is Anger the Enemy?                        New Moon Books       Ringer A.
Is Anger the Enemy?                        New Moon Books       Ringer A.
Life Without Fear                          New Moon Books       Ringer A.
Net Etiquette                              Algodata Infosystems Locksley C.
Onions, Leeks, and Garlic: Cooking Secrets of Binnet & Hardley  Panteley S.
Prolonged Data Deprivation: Four Case Studies New Moon Books    White J.
Secrets of Silicon Valley                  Algodata Infosystems Dull A.
Secrets of Silicon Valley                  Algodata Infosystems Hunter S.
Silicon Valley Gastronomic Treats          Binnet & Hardley     del Castillo I.
Straight Talk About Computers              Algodata Infosystems Straight D.
Sushi, Anyone?                             Binnet & Hardley     O'Leary M.
Sushi, Anyone?                             Binnet & Hardley     Gringlesby B.
Sushi, Anyone?                             Binnet & Hardley     Yokomoto A.
The Busy Executive's Database Guide        Algodata Infosystems Green M.
The Busy Executive's Database Guide        Algodata Infosystems Bennet A.
The Gourmet Microwave                      Binnet & Hardley     DeFrance M.
The Gourmet Microwave                      Binnet & Hardley     Ringer A.
You Can Combat Computer Stress!            New Moon Books       Green M.

(25 row(s) affected)
```

6. **For each store in the state of Washington, display the name of the store, the city and state it is located in, and lastly the title and amount of each book they have sold. Sort results by book titles in descending order.**

```
last name du Store       city                 state title                         Livres vendus
-------------------- -------------------- ----- ------------------------------ -------------
Eric the Read Books  Seattle              WA    Is Anger the Enemy?            3
Eric the Read Books  Seattle              WA    The Busy Executive's Database  5
Doc-U-Mat: Quality L Remulade             WA    Prolonged Data Deprivation: Fo 15
Doc-U-Mat: Quality L Remulade             WA    Computer Phobic AND Non-Phobic 20
Doc-U-Mat: Quality L Remulade             WA    Is Anger the Enemy?            20
Doc-U-Mat: Quality L Remulade             WA    Emotional Security: A New Algo 25
Doc-U-Mat: Quality L Remulade             WA    Life Without Fear              25
Doc-U-Mat: Quality L Remulade             WA    The Gourmet Microwave          25

(8 row(s) affected)
```

7. **Display the names of all publishers who have paid an advance greater than $1000 for a book, along with the books id of the book the advance was paid for.**

```
pub_name                               title_id
-------------------------------------- --------
Algodata Infosystems                   BU1032
Algodata Infosystems                   BU1111
New Moon Books                         BU2075
Algodata Infosystems                   BU7832
Binnet & Hardley                       MC3021
Algodata Infosystems                   PC1035
Algodata Infosystems                   PC8888
Binnet & Hardley                       PS1372
New Moon Books                         PS2091
New Moon Books                         PS2106
New Moon Books                         PS3333
New Moon Books                         PS7777
Binnet & Hardley                       TC3218
Binnet & Hardley                       TC4203
Binnet & Hardley                       TC7777

(15 row(s) affected)
```

8. **Display the names of publishers who have published books in the "business" or "psychology" categories.**

```
pub_name                               type
-------------------------------------- ------------
Algodata Infosystems                   business
Binnet & Hardley                       psychology
New Moon Books                         business
New Moon Books                         psychology

(4 row(s) affected)
```

9. **Display the titles of books that have been written by the author Albert Ringer.**

```
title                    au_fname             au_lname
------------------------ -------------------- -----------
Is Anger the Enemy?      Albert               Ringer
Life Without Fear        Albert               Ringer
```

10. **Display the name of each publisher with the number of employees they employ.**

```
pub_name                                 number of employees
---------------------------------------- --------------------
Algodata Infosystems                     10
Binnet & Hardley                         10
Five Lakes Publishing                    1
GGG&G                                    1
Lucerne Publishing                       7
New Moon Books                           10
Ramona Publishers                        1
Scootney Books                           3

(8 row(s) affected)
```

11. **Display the name of each publisher with the number of books they have published, the minimum price of their books, the maximum price of their books, the sum and the average of their prices.**

```
Publisher name       Pub. Books minimum       maximum       sum       average
-------------------- ---------- ------------ ------------ --------- ---------
Algodata Infosystems 6                 11.95        22.95     94.88     18.98
Binnet & Hardley     7                  2.99        21.59     92.46     15.41
New Moon Books       5                  2.99        19.99     48.92      9.78

(3 row(s) affected)
```

12. **Display the name of each Store with the number of different books sold in each store.**

```
stor_name                                nubmer of dif. books
---------------------------------------- -----------------------
Barnum's                                 2
Bookbeat                                 4
Doc-U-Mat: Quality Laundry and Books     6
Eric the Read Books                      2
Fricative Bookshop                       3
News & Brews                             4

(6 row(s) affected)
```

13. **Display the title books that have sold fewer than 25 copies, along with the quantity they have sold.**

```
title                                                          quantity sold
-------------------------------------------------------------- ------------
Computer Phobic AND Non-Phobic Individuals: Behavior Variations 20
Fifty Years in Buckingham Palace Kitchens                      20
Prolonged Data Deprivation: Four Case Studies                  15
Silicon Valley Gastronomic Treats                             10
Straight Talk About Computers                                  15
Sushi, Anyone?                                                 20
The Busy Executive's Database Guide                            15

(7 row(s) affected)
```

14. **Display the largest advance payment made by each publisher (along with the publisher's name).**

```
publisher                                Largest Payment
---------------------------------------- --------------------
```

```
Algodata Infosystems                      8000.0000
Binnet & Hardley                          15000.0000
New Moon Books                            10125.0000

(3 row(s) affected)
```

15. **Display the name of authors who have not written a book.**

```
author
-------------------------------------------------------------
Greene Morningstar
McBadden Heather
Smith Meander
Stringer Dirk

(4 row(s) affected)
```

16. **Display the number of books sold for each book title.**

```
title                                                          Number of books sold
-------------------------------------------------------------- ----------------------
The Busy Executive's Database Guide                            15
Cooking with Computers: Surreptitious Balance Sheets          25
You Can Combat Computer Stress!                                35
Straight Talk About Computers                                  15
Silicon Valley Gastronomic Treats                              10
The Gourmet Microwave                                          40
The Psychology of Computer Cooking                             0
But Is It User Friendly?                                        30
Secrets of Silicon Valley                                      50
Net Etiquette                                                  0
Computer Phobic AND Non-Phobic Individuals: Behavior Variations  20
Is Anger the Enemy?                                            108
Life Without Fear                                             25
Prolonged Data Deprivation: Four Case Studies                 15
Emotional Security: A New Algorithm                           25
Onions, Leeks, and Garlic: Cooking Secrets of the Mediterranean  40
Fifty Years in Buckingham Palace Kitchens                     20
Sushi, Anyone?                                                 20

(18 row(s) affected)
```

17. **Display the number of books sold for each store.**

```
Store                                  Number of books sold
-------------------------------------- ----------------------
Eric the Read Books                    8
Barnum's                               125
News & Brews                           90
Doc-U-Mat: Quality Laundry and Books   130
Fricative Bookshop                     60
Bookbeat                               80
```