**Goal:** Complete the assigned queries and responses:

**Deliverable:** These problems are for practice. You do not need to submit them.

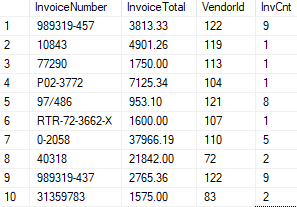
**Questions/ Problems:**

1. Change the database context to pubs.
2. Write a query that will tell you the total number of publishers where state information is not recorded.
3. Now find out the highest price for a title (you do not need the title name).
4. Sales are important. Write a query that will list each title and all the information about each sale in the sales table. The full title name should show.
5. As a comment in your script, note what type of query number 4 required. Was it a natural join, an inner join, a theta join or an outer join? Explain your answer.
6. Revise that previous query to include the actual name of the store from the stores table and to restrict the information to that, the title, order dates and quantity ordered.. The Headers should also not be the cryptic name from the table definition. The column headings must read:

Store Name Title Order Date Quantity

1. It would be helpful to know which jobs are held by employees in the company. Write a query that will list the job ID, the description of the job, the ID of the employee and the employee’s name in the format of “Lastname, FirstName” (e.g. Bailey, Pat) The headings should be as follows:

JOB ID JOB DESCRIPTION EMPLOYEE ID EMPLOYEE NAME

1. Change that previous query to ensure all the job ID’s and job descriptions show.
2. Comment on which job is not filled. What tells you that it’s not filled?
3. Modify that last query so that it includes only executives and managers.
4. Set the database context to AP
5. Write a query which will show vendors that have an invoice. Show the full names of the vendors.
6. \*From Murach, Chapter 6, modify problem 2. Instead of just selecting PaymentTotals greater than the average, make the comparison value the midpoint between the average and lowest PaymentTotal.
7. \*Modify 13 above. Project the VendorID and also the total number of invoices the vendor has. The results should look similar to the following:
8. 
9. Change the database context to AdventureWorks. Take time to examine the tables to determine how information about employees is structured.
10. How many employees work for AdventureWorks and what’s the birthdate of the oldest person?
11. We want to offer employees a retirement package worth $120,000. We think anyone 52 and over as of the day we run the query should qualify. How many will qualify and how much will the total cost be if each of those qualified received the package? (Note: Refer to the date functions getdate, dateadd and datediff in the Microsoft Documentation)
12. Okay, now we have another option. To encourage each employee to take the retirement package, we will add $10K for every year they are past 52 as of day we run the query. Which employees (including their login ID, birthdate and employee ID number) will qualify and how much will each one get? (Note: you may incur some rounding. Try to make sure that the difference of whole years are at least within only a month. Similar to 18, you will need to reference the datediff and getdate functions).

\*These problems involve sub-queries which we have not discussed yet, but for future reference the solutions are also provided.