CSCI 4055 – Programming assignment

You need to write a well-documented, well-structured and efficient Java program that utilizes JDBC to generate the following reports. The project will use the COMPANY database as its structure and run on the classroom environment.

Page one will be an executive summary. For each department in alphabetic order with the manager's name, list the project's (managed by that department) name, total number and hours of all employees working on the project and the total financial commitment.

Starting with the second you will build a break out report for each project. For each project under the departments and the location of the project followed by a list of employees working on that department. With each employee you will print their name, hours worked, financial commitment and home town. Followed by a total for the projects. This total should match the totals from the first page.

Financial commitment (FC) is calculated as employee's salary times the percentage of their work week that is invested in that project. For example, let's say an employee work 10 hours on a project and is paid $20,000 then the FC = 20000 * (10/40) = $5,000.

Notes.

1. All decimals should be aligned within a report element.
2. All employees, projects, department in the same list should be in alphabetic order.
3. Employee working on a project that have no hours or you don't know the hours should not be list in the employee list under the project or in the employee total count.
4. Program should display report on the screen and provide option to print.
5. Omniscient and hard coded program will be highly penalized.

Due Date: 11/2
Submit: Java code and PDF of your print out.

Example report

Project Executive Summary

```
Administration – Jennifer S. Wallace
      Computerization                 3          55.0      $ 38,125.00
      Newbenefits                     3          55.0      $ 43,375.00

Headquarters – James E. Borg
      Reorganization                  2          25.0      $ 26,125.00

Research – Franklin T. Wong
      ProductX                        3          52.5      $ 36,875.00
      ProductY                        3          37.5      $ 28,125.00
      ProductZ                        2          50.0      $ 48,000.00
```

Project Details

```
Administration
  Computerization (Stafford)
    Ahmad V. Jabbar              35.0    $ 21,875.00   Houston
    Franklin T. Wong             10.0    $ 10,000.00   Houston
    Alicia J. Zelaya             10.0     $ 6,250.00   Spring
                                 ─────   ───────────
                                 55.0    $ 38,125.00

  Newbenefits (Stafford)
    Ahmad V. Jabbar               5.0     $ 3,125.00   Houston
    Jennifer S. Wallace          20.0    $ 21,500.00   Bellaire
    Alicia J. Zelaya             30.0    $ 18,750.00   Spring
                                 ─────   ───────────
                                 55.0    $ 43,375.00

Headquarters
  Reorganization (Houston)
    Jennifer S. Wallace          15.0    $ 16,125.00   Bellaire
    Franklin T. Wong             10.0    $ 10,000.00   Houston
                                 ─────   ───────────
                                 25.0    $ 26,125.00

Research
  ProductX (Bellaire)
    Joyce A. English             20.0    $ 12,500.00   Houston
    John B. Smith                32.5    $ 24,375.00   Bellaire
                                 ─────   ───────────
                                 25.0    $ 26,125.00

  ProductY (Sugarland)
    Joyce A. English             20.0    $ 12,500.00   Houston
    John B. Smith                 7.5     $ 5,625.00   Bellaire
    Franklin T. Wong             10.0    $ 10,000.00   Houston
                                 ─────   ───────────
                                 25.0    $ 28,125.00

  ProductZ (Houston)
    Ramesh K. Narayan            40.0    $ 38,000.00   Humble
    Franklin T. Wong             10.0    $ 10,000.00   Houston
                                 ─────   ───────────
                                 50.0    $ 48,000.00
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