**Assignment #2**

**Querying a Database of Hospital Stays**

**(due on Wednesday, October 31, 2012)**

Download the MS Access database **hospitalStay2.mdb** from the class Web-site (under assignments).

Write queries answering the questions stated below. For each query, provide the SQL query and a screenshot of the results.

NOTE: the data dictionary of the database can be obtained from the Access database from **Database Tools 🡪 Documenter**.

Each question is graded 10 points.

1. Provide a list of the hospital stays for institutionID **180000028** which ended in **April** for **40-year old** patients whose major diagnostic category (MDC) belongs to category **3**. The list should provide the following fields: institutionID, DSNum, MonthExit, Age, and MDC.
2. Modify the preceding query so that the name of the hospital appears in the first column.

1. Provide the number of hospital stays (discharge summaries DSnum) by sex in the region. Only the sex label and the number of discharge summaries should be provided.

1. Provide the number of hospital stays (discharge summaries) by institution and by sex in the region. Only the InstitutionID, institution name, sex label, and number of discharge summaries should be provided.
2. Same question, but only for the institution “C H AGGLOMERATION MONTARGOISE”. In this case, the InstitutionID need not be provided.
3. Provide, on two separate lines, the number of patients, by sex, having been hospitalized for DRG 04M05V: “Pneumoniae and pleurisies, simple, age greater than 17 without complications” and DRG 04M05W: “Pneumoniae and pleurisies, simple, age greater than 17 with complication” in the region.
4. Provide, on two separate lines, the number of patients, by sex, having been hospitalized for the DRG 04M05V: “Pneumoniae and pleurisies, simple, age greater than 17 without complications” and DRG 04M05W: “Pneumoniae and pleurisies, simple, age greater than 17 with complication” for the hospital named: “C H de Bourges”.
5. On the complete database, determine for each DRG, the total number of hospital stays, the sum of the lengths of hospital stays, and the average length of hospital stay.
6. Create a table with these results, entitled “sum and average by DRG”. Explain how you do this, and provide a screenshot showing the list of tables in the database.
7. Provide the top 5 DRGs for the average length of hospital stay, with the label of this DRG (display DRG, Label, number of stays, sum of lengths of stay, average length), sorted by decreasing average length of stay.