SYDE - Assignment #7 – Final Project

Bill’s Travel Service

Bill’s Travel Service (BTS) books discounted spring break trips for students. During summer and fall Bill contacts various resorts who are interested in hosting students. The resort indicates the number of rooms, room capacity, and room rates for each different week that students are on break. Keep in mind that not all colleges & universities have the same week off, so for the actual resort (and BTS) spring break is normally 4-6 weeks in length.

Each resort offers bookings for a different number of weeks, and rooms have different rates depending on the week. A variety of room types and capacities are usually available at each resort. So, for example, a resort might offer rooms with a capacity of 2 guests for $75/day one week and $85/day the next. Capacity is a minimum of two, but there is no real maximum (for example a ski chalet).

During November & December BTS creates lists of resorts, rooms, capacities and room rates showing each week the resort / room is available. This list is distributed to a wide variety of colleges and universities. BTS then opens the phone lines and takes bookings. Only phone orders are accepted. BTS keeps track of what is being booked and for when, and send confirmations (regular mail or email, students’ choice) for what has been booked. Updated lists are sent to the campuses weekly. When the cutoff date for booking arrives, normally about a week before Break Week Starts, BTS creates a list for the resort of who has booked, which type of room they were assigned, dates, prices, etc. This list basically becomes the Check-In list for the resort of who they are expecting.

When the student arrives at the resort they pay the resort directly. The resort sends commission cheques to BTS, which is fed into the BTS Accounting System. Accounting is a completely separate system from the Room Booking system and is not your concern in this assignment.

When break week is over students leave the resort and get back to classes to work on fun things like SAAD assignments.

Since the above description is clearly just an overview, you have broad permission to make assumptions. However, if you do make assumptions regarding aspects of this process please note this in your system documentation so I can interpret your work correctly.

You are required to:

1. ~~Create a Project Plan in OpenProj. This is to contain a list of tasks to be done, your estimate on how long they are going to take, who is going to do them, and when. Remember to include everything to be done, including things like who is putting together the printed reports, creating the cover page, etc. This sort of activity is commonly a task. This is to be done first, and submitted separately at the due date / time indicated.~~
2. ~~Create a Class diagram for a minimum of 6 classes in this system. There must be at least one superclass, and you must show the needed relations and multiplicity between the classes.~~
3. ~~Create an Activity Diagram / State Chart that describes the ordering process from the time the phone call is made by the student until the list is sent to the resorts. Depending on your view of this process you may choose to draw this as more than 1 Activity Diagram.~~
4. ~~Create report designs for each of the following:~~ 
   1. ~~The report that goes to the resort showing which students are going to the resort for a specific week~~
   2. ~~The weekly report that goes back to the University showing who has booked what.~~
   3. ~~The November / December report that goes to “a wide variety of Colleges and Universities” showing a summary of resort / accommodation / costs / availability.~~
5. ~~Create the database normalization for the 3 report designs above. As with your Normalization assignment also create the tables and relationships in MS-Access and load in several sample records.~~

**Notes**

For this major assignment you must work with a group – no one is permitted to work alone. Groups can be no more than 3 people.

You will have lab time in the remaining weeks to work on this assignment, and there may be some work time granted in lecture classes as well.

This assignment is approximately triple-weighted during marks calculations, and is a great study tool for the exam.

**SUBMISSION**

Submit any electronic materials (Visio, Word, Access etc.) using the DC Connect Dropbox normally. Also, print out your diagrams and hand them in. Indicate your name and the question number clearly on the diagram, as well as a cover page containing your name(s), assignment #, etc.

You MUST do both! If you only submit using DC Connect I will print it out myself, but I WILL deduct marks.