**CITC 2348 Lab Exercise 4 (20 pts)**

1. The business has requested a report that shows total sales (in dollars) per day per sales rep. The output should look like the following in general:

**Date SalesRepID FirstName LastName Total Sales**

2012-01-26 1 Maurie Lockley 154.00

2012-01-25 1 Maurie Lockley 112.50

2012-01-25 2 SpongeBob SquarePants 41.00

2012-01-24 1 Maurie Lockley 126.00

2012-01-23 1 Maurie Lockley 147.00

Implementation requirements:

* Write 2 reports, one that is implemented by doing the rollup of the total sales inside the report and one by doing the summation in the query.
  + Include the URLs to your reports in this document that you will upload to Brightspace.
* The source of your data should be the JJ schema in your database.
  + The data sources for your reports should use SQL Server Authentication (reportinguser)
* The queries for the reports should be implemented as stored procedures implemented in your databases.
  + Report 1’s stored procedure should return the following data to the report: Date, Sales Rep Id, Rep First name, Rep last name, Qty sold, Product price. The report will aggregate the data and compute total sales (qty\*product price).
    - [dbo].[LAB4\_REPORT1]
    - <https://web-students.pstcc.edu/ReportServer/Pages/ReportViewer.aspx?%2FLab4_report_1%2FReport1&rs%3AClearSession=true&rc%3AView=63ae6d28-576f-4283-926e-6bd6de623e7f>
  + Report 2’s stored procedure should return the exact data to be displayed on the report shown above, i.e. pre-aggregate by day by sales rep and showing total sales.
    - [dbo].[LAB4\_REPORT2]
    - <https://web-students.pstcc.edu/ReportServer/Pages/ReportViewer.aspx?%2Flab4_report2%2Flab4_Report2&rs%3AClearSession=true&rc%3AView=93254dd5-4475-4a9b-a4f2-1ae7c4b60345>
    - **Extra Credit (20 pts)**

The business has filed complaints that center around the following:

* + The agents, that enter transactions into the JJ system (add, update, delete) have reported that the system has been running slow at various times.
  + The users of the “Sales by Rep by Day” report have indicated that they the report runs for a long time prior to returning the result.

Implementation requirements:

* Aggregate the data nightly onto a table in a separate Reporting schema (in your database)
  + You don’t have to schedule the stored procedure to run on nightly basis, just implement the stored procedure in your database.
  + Include the name of the stored procedure here.
* Write a report that uses the aggregation table as a source of the data.
  + Include the report URL here.