CSE 512 – Assignment 2

This assignment is a **GROUP** assignment; each group (based on the groups formed for the class project) of students. The required task is to build a simplified query processor that accesses data from the partitioned ratings table (partitioned using the Python functions you implemented in Assignment 1).

Input Data. Same as in Assignment 1

Required Task. Below are the steps you need to follow to fulfill this assignment:

1. Implement a Python function RangeQuery() that takes as input: (1) Ratings table stored in Post-greSQL, (2) RatingMinValue. RangeQuery() then returns all tuples for which the rating value is larger than or equal to RatingMinValue and less than or equal to RatingMaxValue. The returned tuples should be stored in a text file, named RangeQueryOut.txt such that each line represents a tuple that has the following format such that PartitionID represents the name (or ID) of the partition in which this tuple resides.

2. Implement a Python function PointQuery() that takes as input: (1) Ratings table stored in Post-greSQL, (2) RatingValue. PointQuery() then returns all tuples for which the rating value is equal to RatingValue. Same as in RangeQuery(), the returned tuples should be stored in a text file, named PointQueryOut.txt.

Note. Note that both RangeQuery() and PointQuery() assume that the Ratings table is already partitioned using either Range Partitioning or Round Robin Partitioning (implemented in Assignment 1). Since this is a group assignment, you may choose to implement Assignment 2 based upon the best Assignment 1 implementation of all group members.

Deadline. Thursday, Mar 19th 2015 (5:00 pm). Groups should submit their assignment at 5:00 pm before class. Each group should come prepared to grade their assignment in Mar 19th class.