CS660 PA3

1.Description

`Filter.java`

- do the selection in open() method;
- use a arraylist to store all passed data;

`Join.java`

- implement ‘block Nested Loop Join’;
- choose the block size as 131072 Bytes;

`IntegerAggregator.java`

- use a hash map to store all passed integer fields;
- the result of AVG is integer number;

`StringAggregator.java`

- use a hash map to store counts of each group-by field ;

`Aggregate.java`

- pre-calculate the results of aggregator, and store them in a DbIterator;

`insertTuple()`

- get the page from Bufferpool, if the page has empty slot, insert the tuple;
- if the page is full, then insert the tuple to a new blank page;
- store the affected pages in an arraylist, and return the arraylist;

`deleteTuple()`

- find the affected page according to tuple’s page Id;
- store the affected pages in an arraylist, and return the arraylist;

2. No change to the API.

3. Complete all requirements of PA3.

4. Totally spend about 9 hours on this lab.