

# Writeup Lab 3

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Jiaxin Lu, 518030910412

## **Describe any design decisions you made.**

Ex1:

Filter: traverse the iterator, stop until find some tuple meet the requirement.

Join: use the nested loop.

Ex2:

IntegerAggregator: use a groupByMap for support and a countMap especially for AVG operation.

StringAggregator: use a countMap for COUNT.

Ex3:

InsertTuple: first find a page have free slots and then insert tuple into that page, make the relevant page dirty.

DeleteTuple: find the page and make the slot empty, make the relevant page dirt.

Ex4:

For both, traverse the iterator, and then call relevant functions. Modified some part of the iterator written before so that it fit the requirement of Delete.

## **Discuss and justify any changes you made to the API.**

None to my knowledge.

## **Describe any missing or incomplete elements of your code.**

None to my knowledge.

## **Describe how long you spent on the lab, and whether there was anything you found particularly difficult or confusing.**

3 Days. Nothing particularly difficult. However, the document on `Insert` and `Delete` is a little bit confusing at first glance. It will be better to make the structure of this part to be clearer.