

## Description for Lab3

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### 1.Design decisions

(1)Using HashedJoin instead of Join when op is EQUAL.

2.No API is changed.

3.Not ready for multithread. Some dirty pages may be forgotten. Insert and delete of tuples are a little confusion. writePage in HeapFile is not tested.

4.It takes me 15 hours to finish lab3. The answer of the three SQL queries are not given, and it is hard to debug.