Data Systems Assignment 4

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SYSTEM CONFIGURATION

Processor: Intel(R) Core(TM) i7-5500U CPU @ 2.40GHz

Memory: 8 GB Hard disk: 1 TB

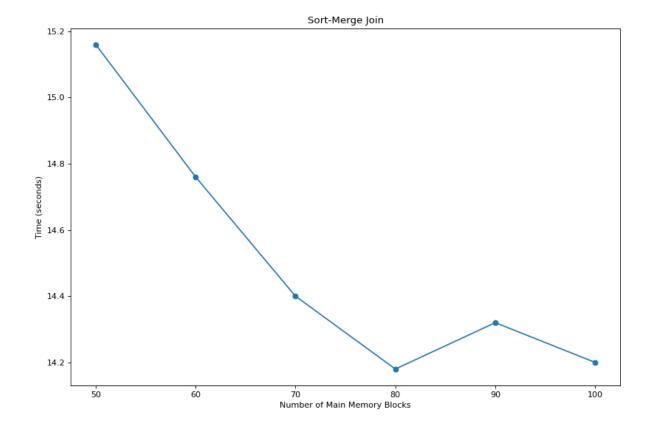
OS: Ubuntu 20.04.1 LTS

INPUT RELATIONS

- R(X, Y) and S(Y, Z) with join condition as R.Y = S.Y.
- Both relations had 50000 records.
- Each column had a string of length 7 characters.
- Each block can have a maximum of 100 records.4

SORT-MERGE JOIN

Number of Main Memory Blocks	Execution Time
50	15.16
60	14.76
70	14.40
80	14.18
90	14.32
100	14.20



HASH JOIN

Number of Main Memory Blocks	Execution Time
50	4.14
60	3.62
70	7.58
80	3.07
90	3.26
100	3.25

