

Data Systems

Assignment-4

- **System Configuration :**

Processor : Intel® Core™ i7-6500U CPU @ 2.50GHz × 4

Memory : 15.5 GiB

Disk Capacity : 1.0 TB

Base System : Ubuntu 20.04 LTS 64-bit

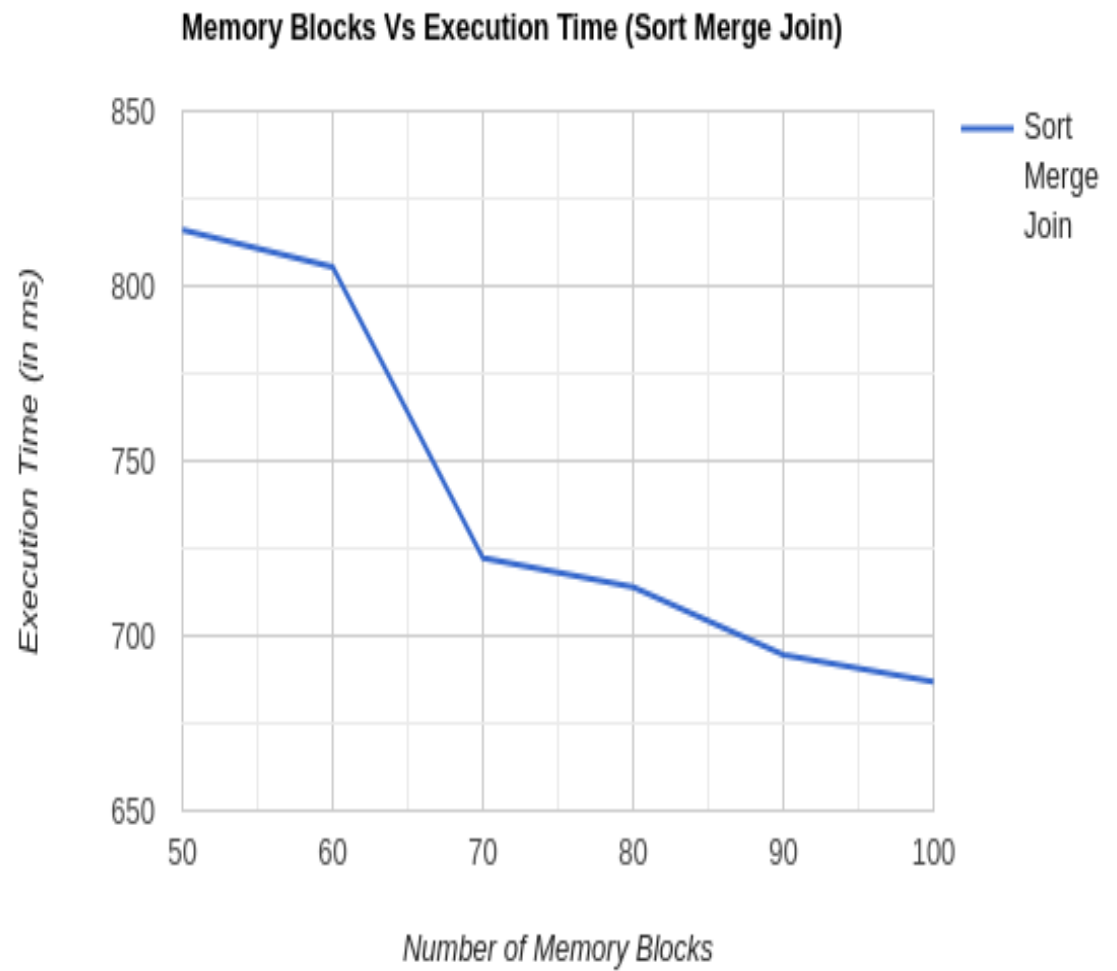
- **Observations :**

- 1) **Varying M (Number of memory blocks) for Sort Merge Join:**

Number of records in a memory block = 100

M	Execution Time (In ms) (Sort Merge Join)
50	816.126
60	805.436
70	722.200
80	713.998
90	694.541
100	686.93

Graph of Observations (For Sort Merge Join) :



2) Varying M (Number of memory blocks) for Hash Join:

Number of records in a memory block = 100

M	Execution Time (In ms) (Hash Join)
50	2855.398
60	1497.878
70	1494.005
80	1488.661
90	1474.928
100	1463.683

Note : Kindly refer to the graph on next page

Graph of Observations (For Hash Join) :

