

Sort-Merge and Hash Join

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Configuration of System

- Dell inspiron 1500 series
- Intel i5 5th Gen 2.2 GHz
- 4 GB RAM
- 500 GB hard drive

Input Relation R and S

- $R(X, Y)$ and $S(Y, Z)$ is randomly generated
- For the testing input R has 11,000 rows and input S have 22,000 rows
- According to the assignment statement, each block is assumed to carry maximum 100 tuples

Sort-Merge-Join and Hash Join Time comparison

<u>Aa</u> Value of M	☰ sort merge join	☰ hash join
<u>50</u>	2.72	97.37
<u>60</u>	2.97	98.70
<u>70</u>	2.71	104.82
<u>80</u>	2.52	100.57
<u>90</u>	2.27	108.61
<u>100</u>	2.64	95.07



