Benchmark-Project 2

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For the benchmarking, we selected three queries:

1, SELECT * FROM Sailors WHERE Sailors.A < 100;

2, SELECT * FROM Sailors WHERE Sailors.A > 300 AND Sailors.B < 1000;

3, SELECT * FROM Sailors, Boats WHERE Sailors.A < 300 AND Boats.E < 200 AND Boats.E < 3000;

Here is our schema:

- Sailors A B C
  We used the given Sailors file, where there are 10000 tuples and each attribute value was chosen uniformly at random in the range 0 to 10000.
- Boats D E F
  We used the given Boats file, where there are 10000 tuples and each attribute value was chosen uniformly at random in the range 0 to 10000.

For Query 1, the index used is Sailors.A

For Query 2, the index used is Sailors.A

For Query 3, the indices used is Sailors.A and Boats.E

Here is our result in milliseconds:

Query	Full-Scan	Unclustered	Clustered
Q1	103	71	49
Q2	126	253	106
Q3	1009	838	151