

# Lab 7

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Code and running script are attached separately.

1)

a)

Average of 10 times query. All are in units of ms (1/1000 sec.).

	Load Time		Query 1		Query 2		Query 3	
Data Generator	I	II	I	II	I	II	I	II
Physical Organization								
1	118.8	115.1	152.8	242.3	101.4	143	876.3	1158.4
2	9.5	2.4	81.3	47	114.4	135	267.3	205.7
3	19.3	12.6	111.9	139.9	121	56.4	119.4	496.8
4	18.1	11.9	50	52.7	47.3	91.3	80	58.7

b)

	Load Time		Query 1		Query 2		Query 3	
Data Generator	I	II	I	II	I	II	I	II
Physical Organization	1		1		1		1	
1								
2	109.3		71.5		-13		609	
3	99.5		40.9		-19.6		756.9	
4	100.7		102.8		54		769.3	

2)

When an index is built for a column, its corresponding query time would decrease.

It takes a longer time just to create the index - longer than query. But the query time would decrease a lot. So for a database usually queried not modified, it's a good idea to create indexes.