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Lab 08

CSE 111: Databases

3)

insert into customer index:Query finished in 0.072 second(s)

insert into customer noindex:Query finished in 0.036 second(s)

insert into supplier index:Query finished in 0.045 second(s)

insert into supplier noindex:Query finished in 0.026 second(s)

insert into lineitem index:Query finished in 0.927 second(s)

insert into lineitem noindex:Query finished in 0.333 second(s)

insert into orders index: Query finished in 0.187 second(s)

insert into orders noindex: Query finished in 0.090 second(s)

-Inserting had a longer execution time for index than noindex

4)

create customer mktsegment index:Query finished in 0.028 second(s)

create lineitem returnflag index:Query finished in 0.355 second(s)

create orders priority index:Query finished in 0.070 second(s).

-Creating the index results in an ok execution time

5)

INDEX

1.Query finished in 0.004 second(s). faster

2.Query finished in 0.002 second(s). faster

3.Query finished in 0.005 second(s). faster

4.Query finished in 0.125 second(s).

5.Query finished in 0.006 second(s).

6.Query finished in 0.004 second(s). faster

7.Query finished in 0.249 second(s).

8.Query finished in 0.002 second(s). faster

9.Query finished in 0.003 second(s). no difference

10.Query finished in 0.082 second(s).

11.Query finished in 0.486 second(s).

12.Query finished in 0.059 second(s).

13.Query finished in 0.004 second(s). slight faster

14.Query finished in 0.015 second(s). no difference

15.Query finished in 0.218 second(s). faster

NOINDEX

1.Query finished in 0.005 second(s).

2.Query finished in 0.003 second(s).

3.Query finished in 0.010 second(s).

4.Query finished in 0.124 second(s). slightly faster

5.Query finished in 0.003 second(s). slightly faster

6.Query finished in 0.019 second(s).

7.Query finished in 0.244 second(s). slightly faster

8.Query finished in 0.005 second(s).

9. Query finished in 0.003 second(s). no difference

10.Query finished in 0.059 second(s). faster

11.Query finished in 0.172 second(s). faster

12.Query finished in 0.048 second(s). faster

13.Query finished in 0.005 second(s).

14.Query finished in 0.015 second(s). no difference

15.Query finished in 0.244 second(s).

-It seems that queries with an index had a faster execution time than without b/c indexes do not search the whole db table.

6)

Update lineitem\_index:Query finished in 1.556 second(s).

Update lineitem\_noindex: Query finished in 0.832 second(s).

-Updating a table with an index took longer

7)

Update supplier\_index:Query finished in 0.026 second(s).

Update supplier\_noindex:Query finished in 0.013 second(s).

-Updating a table with an index took longer

From my observation I can conclude that Indexes are great for increasing the performance and speed of

queries by reducing the amount of data it scans. However, for other processes such as Inserting,

Updating, and possibly Creating the indexed tables took longer the execute.