

Database Tuning – Assignment 2

Query Tuning

Group Name (e.g. A1, B5, B3)

Lastname1 Firstname1, StudentID1

Lastname2 Firstname2, StudentID2

Lastname3 Firstname3, StudentID3

October 21, 2016

Experimental Data

Creating Tables and Indexes SQL statements used to create the tables `Employee`, `Student`, and `Techdept`, and the indexes on the tables:

SQL QUERIES ...

Populating the Tables How did you fill the tables? What values did you use? Give a short description of your program.

Query 1

Original Query

SQL ORIGINAL QUERY

Rewritten Query

SQL REWRITTEN QUERY

Evaluation of the Execution Plans Execution plan original query:

execution plan original query...

Give an interpretation of the execution plan, i.e., describe how the original query is evaluated.

Execution plan rewritten query:

execution plan rewritten query...

Give an interpretation of the execution plan, i.e., describe how the rewritten query is evaluated.

Discuss, how the execution plan changed between the original and the rewritten query. In both the interpretation of the query plans and the discussion focus on the crucial parts, i.e., the parts of the query plans that cause major runtime differences.

Runtime Discuss, why the rewritten query is (or is not) faster than the original query.

	Runtime [sec]
Original query	
Rewritten query	

Query 2

Original Query

SQL ORIGINAL QUERY

Rewritten Query

SQL REWRITTEN QUERY

Evaluation of the Execution Plans Execution plan original query:

```
execution plan original query...
```

Give an interpretation of the execution plan, i.e., describe how the original query is evaluated.

Execution plan rewritten query:

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execution plan rewritten query...
```

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	Runtime [sec]
Original query	
Rewritten query	

Time in hours per person: **XXX**