Managing & Programming Database MCDA5540

Master of Science in Computing and Data Analytics
Team Project Bonus

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Bonus Part: PERFORMANCE COMPARISONS

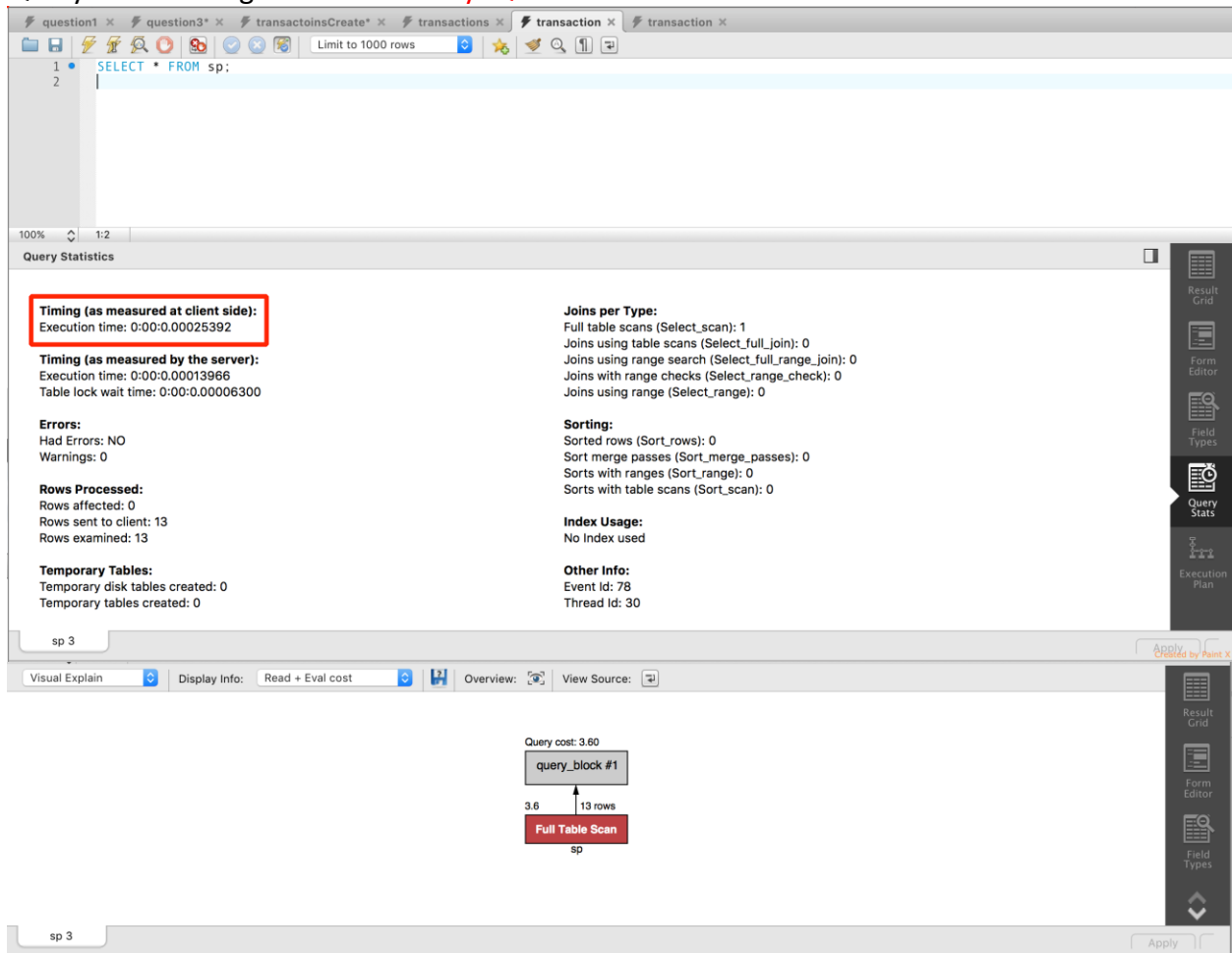## Query 1-a: Running a full scan on MySQL local server

Figure 1 MySql Full table scan performance

Query 1-b: Running a full scan on IBM Db2 on Cloud

Figure 2 DB2 Full table scan performance

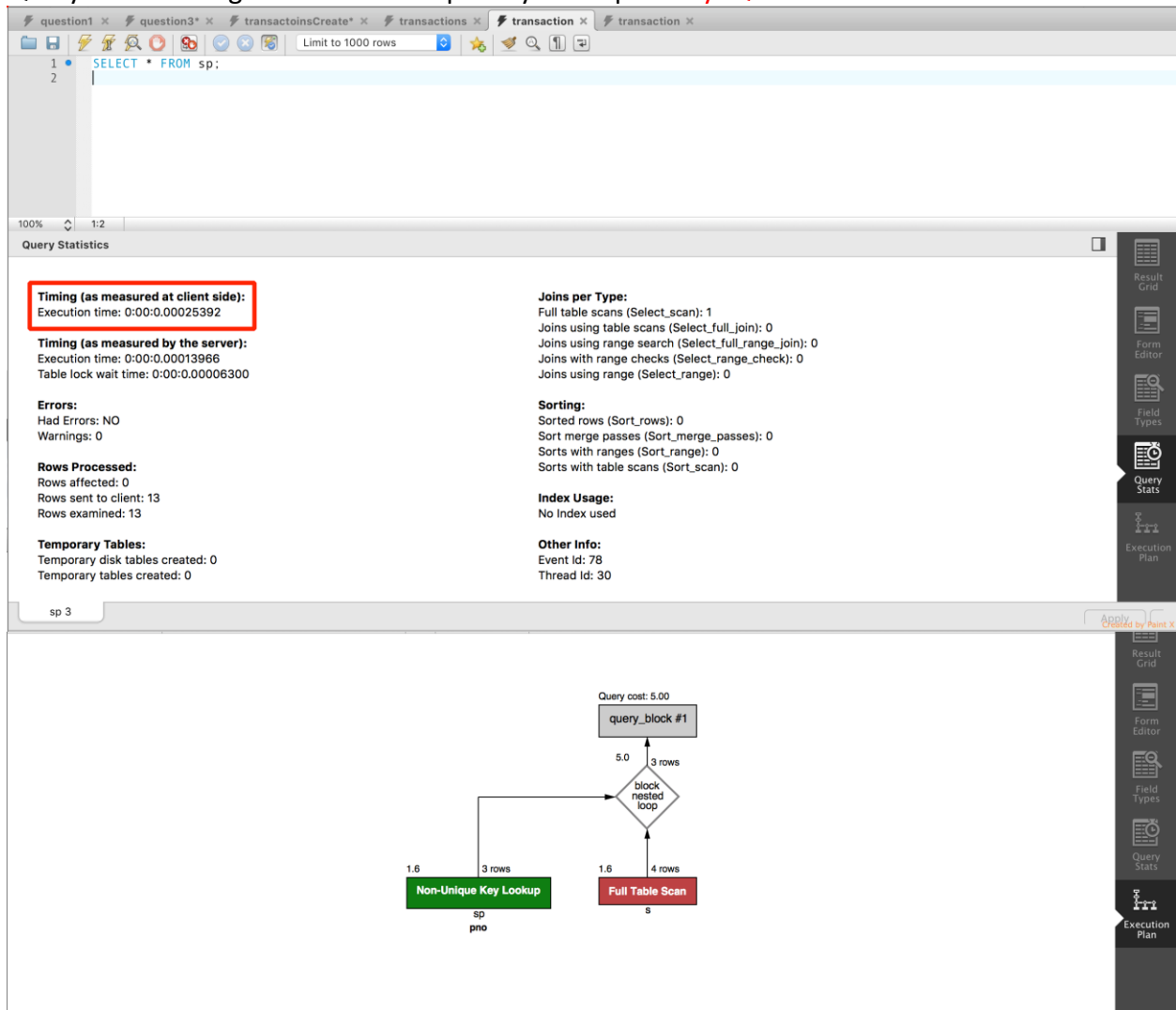# Query 2-a: Running a full scan + unique key look up on MySQL local server

Figure 3 MySql Full table scan + unique key lookup performance

Query 2-b: Running a full scan + unique key look up on IBM Db2 on Cloud

Figure 4 DB2 Full table scan + unique key lookup performance

Query 3-a: Running full scan + unique key look up + non-unique key look up on MySQL local server
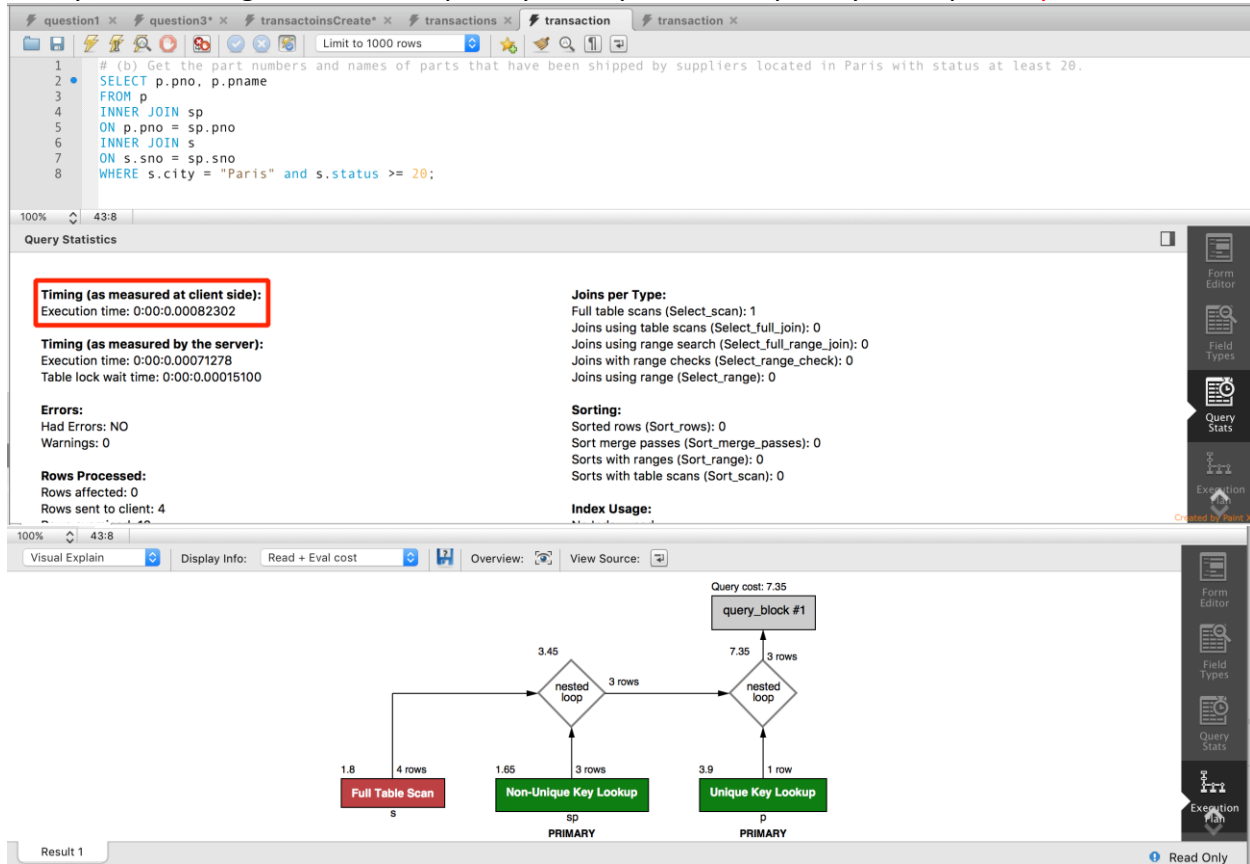

Figure 5 MySql Full table scan + unique + non unique key lookup performance

Query 3-b: Running full scan + unique key look up + non-unique key look up on IBM Db2 on Cloud

Figure 6 DB2 Full table scan + unique + non unique key lookup performance

Conclusion:

For full table scan results are ambiguous since Db2 only using 3 digits after decimal. The difference can be a rounding error.

For full table scan + unique key look up Db2 seems to perform better

For full table scan + unique key look + non-unique key look up MySQL seems to perform better.

Db2 might be performing better with unique key lookups whereas MySQL is superior for non-unique key look ups.

Reference:

1. Data for bonus point is taken from assignment-1.