

# TrussBot

Can you please explain how my query is executed?



<Describes the QEP in NL>

There is a zigzag join operator it seems in the plan. I do not think I have learnt it in the course. What is it?



<Defines zigzag join>

I see. How is the cost of this join estimated?



<Describes the formulas and steps for estimating the cost>

These formulas are from any textbook? Can you please explain the differences, if any?



<Explains in NL>

Why this plan is chosen? Can you connect the reasons with what we have learnt in textbooks?



<Explains in NL>

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What will the plan be if the zigzag join is replaced by a hash join? Has such plan been considered by the optimizer?



Yes, it was considered. <Visualizes the plan with hash join and corresponding estimated cost>

Interesting! Can you show some alternative query plans considered by the engine that are interesting?



Let me show you one at a time. <Shows one interesting AQP at a time>.

Ok! I have seen a sufficient number of them. I think I have a better understanding of the different plan choices. Let me execute the query.



Sure! Go ahead.

Hmm! It is taking quite a long time to finish execution. Is an efficient plan chosen?



No, unfortunately a bad plan is chosen this time. <Explains the actual and estimated cost difference and reasons for slow execution>.