

# Knowledge Check 9: Advanced Distributed Database Systems

<b>Due</b> No due date	<b>Points</b> 0	<b>Questions</b> 5
<b>Time Limit</b> None	<b>Allowed Attempts</b> Unlimited	

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## Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	1 minute	0 out of 0

Submitted Feb 7 at 7:58pm

Correct!

Question 10 / 0 pts

What is the high-level query processing language used by database management systems?

SQL

HTML

XML

PL

SQL (Structured Query Language) is used by database management systems for query processing.

Question 20 / 0 pts

Which of the following cannot be a goal in a query processing?

**Correct!**☐ Minimizing transfers among distributed sites☐ Maximizing throughput☒ Maximizing solution space

The solution space for a query is a fixed set of equivalent algebraic expressions; it cannot be maximized.

☐ Minimizing processing time**Question 3****0 / 0 pts**

Which of the following search algorithms takes the longest processing time?

☐ Genetic algorithm☐ Simulated annealing☐ Heuristic algorithm**Correct!**☒ Exhaustive search

Exhaustive search goes through all possible solutions and hence takes the longest processing time.

**Question 4****0 / 0 pts**

What is the correct order of tasks in a typical distributed query processing?

☐ Optimization, Decomposition, Localization☐ Localization, Decomposition, Optimization

**Correct!**

☐ Decomposition, Optimization, Localization

☒ Decomposition, Localization, Optimization

One first needs to decompose a query, and then localize it. Finally, the resulting queries must be optimized for the best performance.

**Question 5****0 / 0 pts**

What is the correct order of tasks in the decomposition step of the distributed query processing?

☐ Normalization, Algebraic Rewriting, Eliminating Redundancy

**Incorrect Answer**

☐ Normalization, Eliminating Redundancy, Algebraic Rewriting

**Not Answered**

☒ Eliminating Redundancy, Normalization, Algebraic Rewriting

This is not the correct order.

☐ Eliminating Redundancy, Algebraic Rewriting, Normalization