

**Query:** Average of domain values (QoIs) and simulation time estimate  
10 iterations before and after the tunings.

This query does a join on tables ParameterTuning, ParameterTuned, Attribute, InfluencedDataElement, O\_Sedimentation\_Solver, O\_Fluid\_Solver, Task, and Performance. It also does an average on the output values of O\_Sedimentation\_Solver and O\_Fluid\_Solver, and on Execution Time in Performance table. The result is:

Parameter Tuning	Avg Time (s) Bef	Avg Time (s) Aft	Avg nonlin. Bef	Avg nonlin Aft	Avg gmres Bef	Avg gmres Aft	Avg Elems Bef	Avg Elems Aft
1	17.3	18.5	3.8	3.9	2.03e3	2e3	5.32e3	5.38e3
2	16.9	18.1	4.1	4.3	2.05e3	2.03e3	5.44e3	5.41e3
3	17.4	13.2	4.2	4.3	2.02e3	1.54e3	5.45e3	5.43e3
4	12.7	9.6	3.9	4.2	1.49e3	1.01e3	5.51e3	5.49e3
5	14.4	14.8	4.3	4.0	1.06e3	1.01e3	6.28e3	5.58e3
6	15.6	11.2	4.05	4.1	647	445	5.72e3	5.62e3