Name: Kartik Jolapara SapID: 60004200107

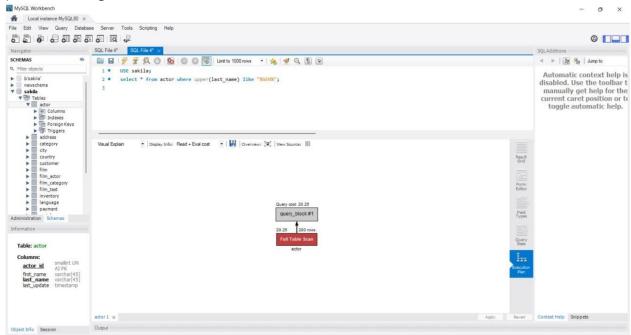
Batch: B1

ADBMS Experiment-3

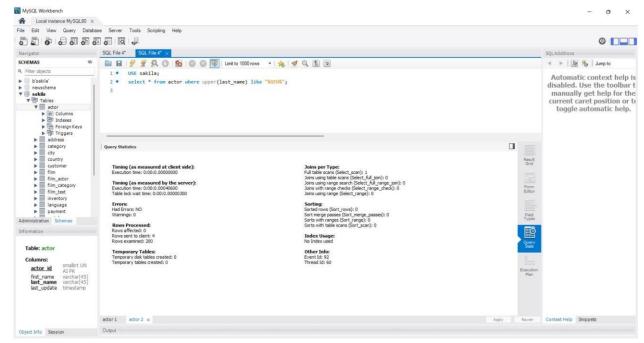
	Rantik Jolapara 60004200107 R1 ADRMS 7 Date 1
	BI ADBMS TES Dates
	Aim: To simulate quely optimisation by performing Sile query on database Theory: covery optimization is of great importance face perharmonic of a relational dutabase, especially for extracexecution of complexed sale statements. There are 2 ways:- 1) Houristic Based 2xost pased
	Heuristic Based: A query thee is a data ortherware that coundpands to a melational algebra expression. The same query could be courses ponding to many wiff event query thees The task of heuristic aptimization of query thees is to find a final query thee that is efficient to execut. The main heuristic is to apply first the aperations that reduce the size of intrinediate ness the
	Extinate and compare the costs of executing a query using different exception standardies and chose the strategy with bourset cost estimate. The cost of any query includes access with to recondary storage, storage cost, memory, usage with no of memory buffely at time of execution communication etc.
Side and the side	

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	conclusion: In this table level and compared it to	index level	of timizat	ion and
	compared it to	the results	of no op	Horization
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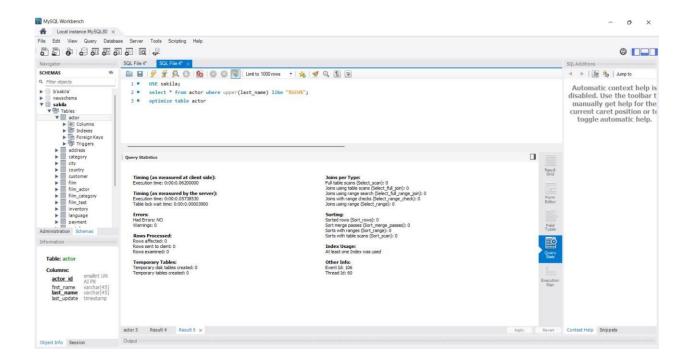
1) SELECT QUERY



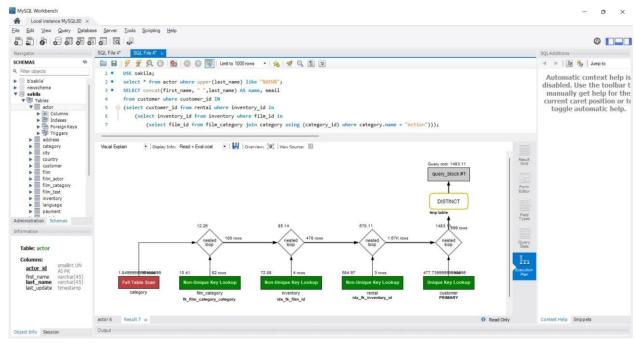
BEFORE OPTIMIZING



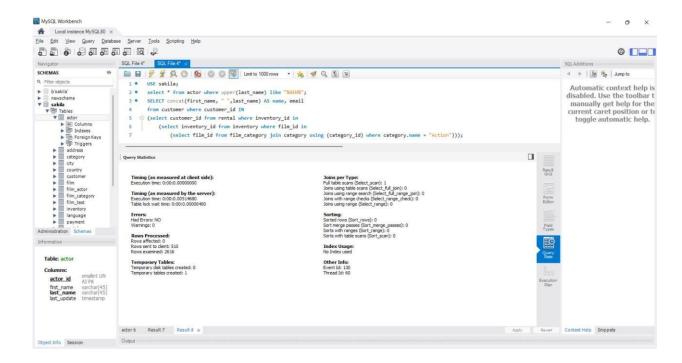
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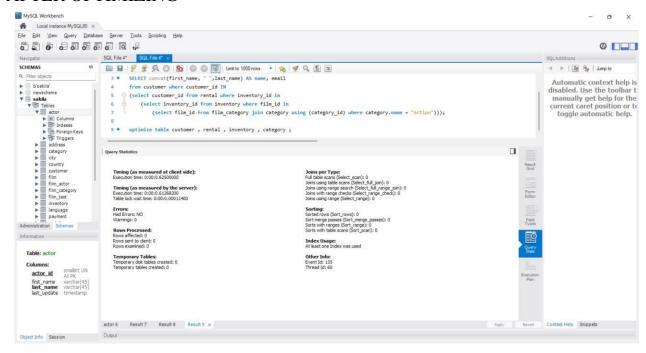
2) NESTED



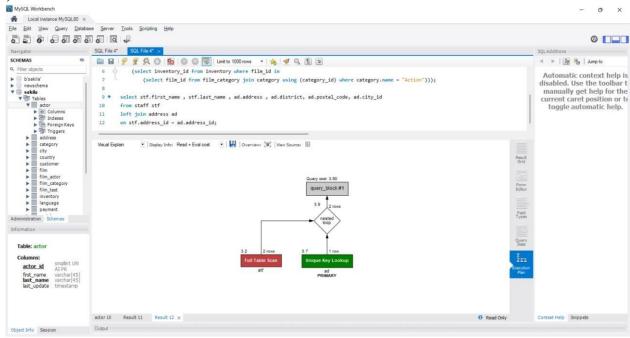
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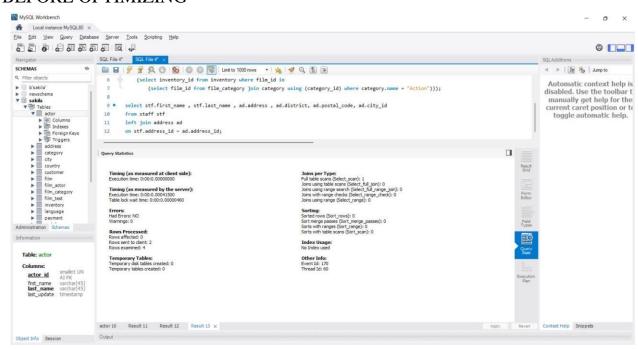
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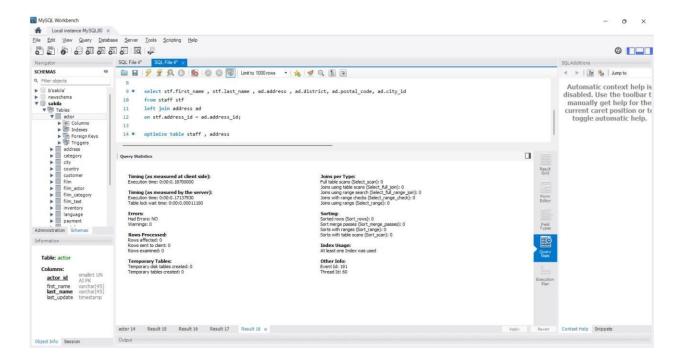
3) LEFT JOIN



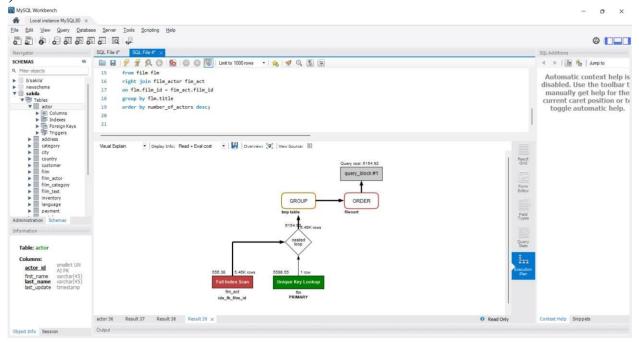
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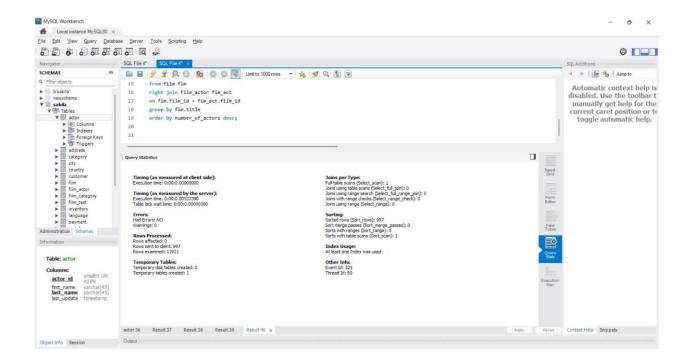
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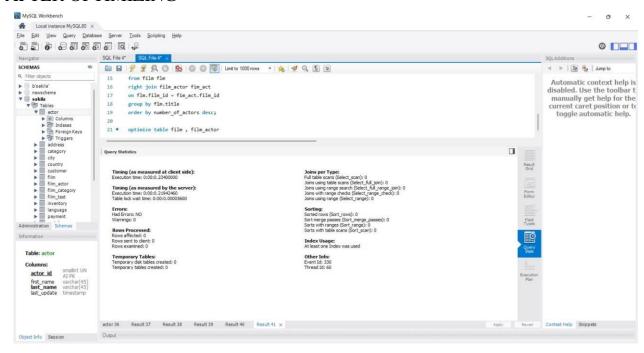
4) RIGHT JOIN



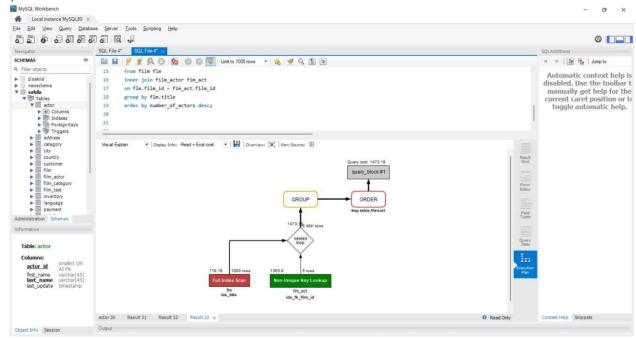
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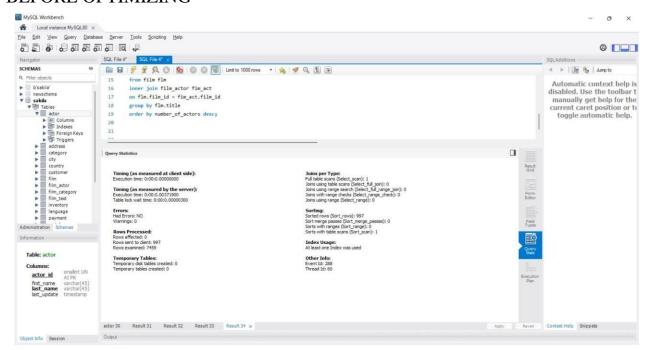
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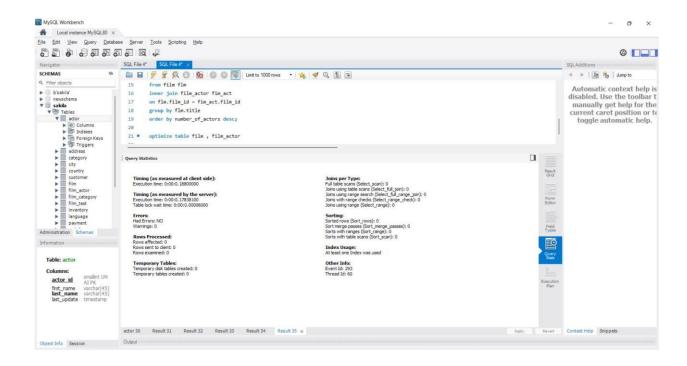
5) INNER JOIN



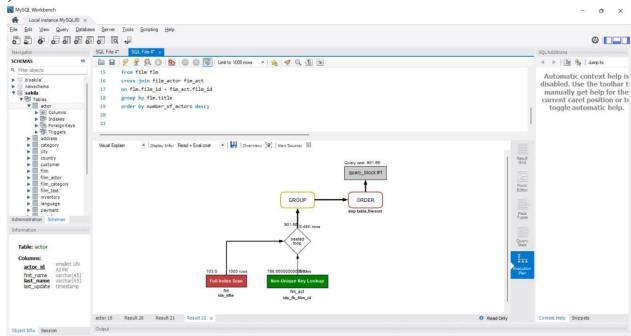
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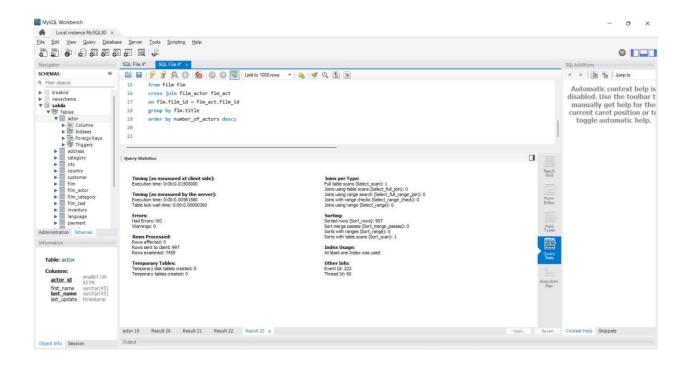
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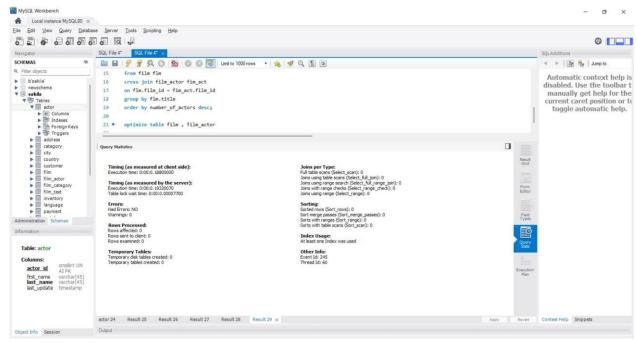
6) CROSS JOIN



BEFORE OPTIMIZING

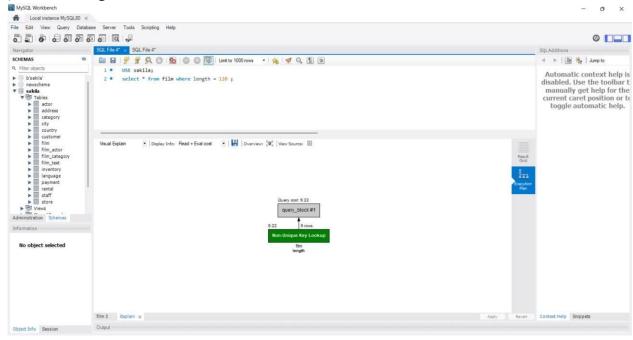


AFTER OPTIMIZING

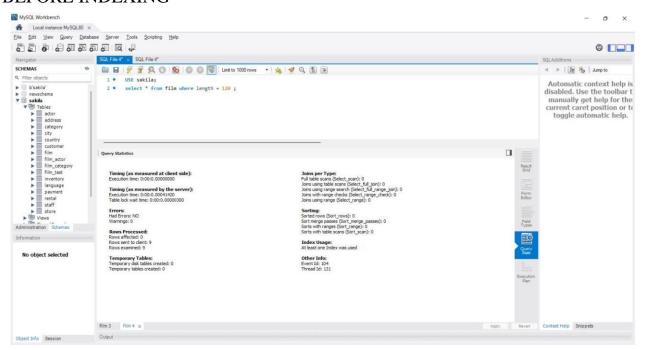


USING INDEXING

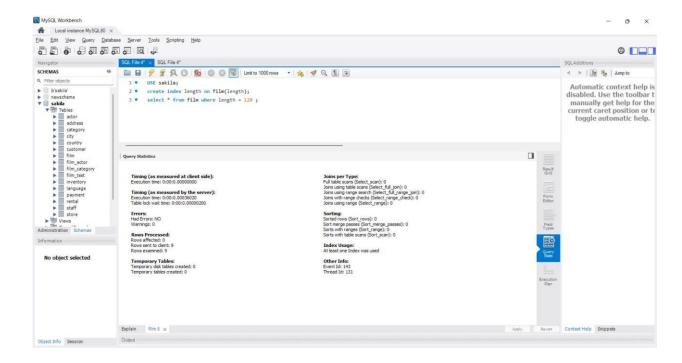
1)SIMPLE QUERY



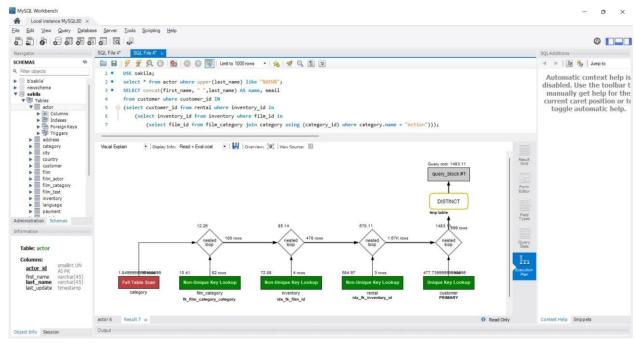
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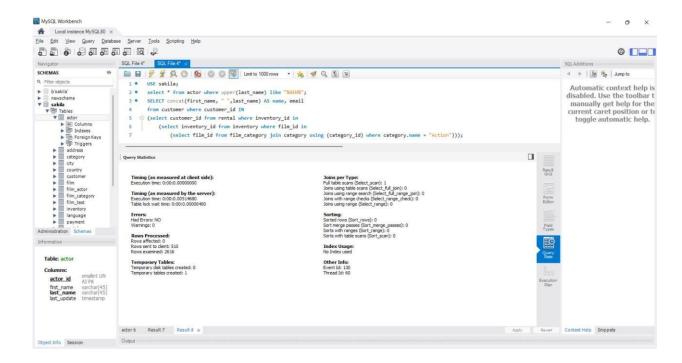
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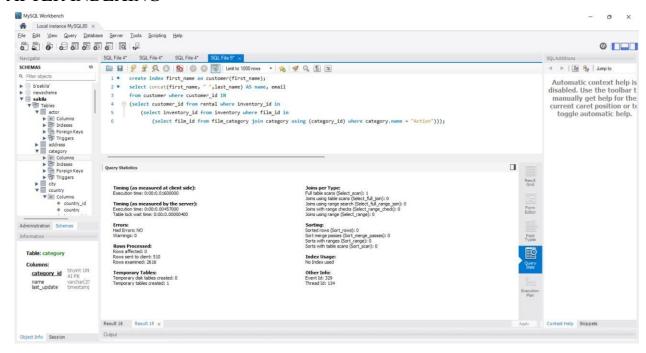
2) NESTED



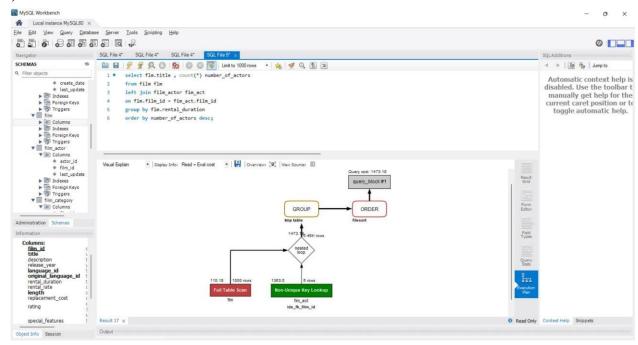
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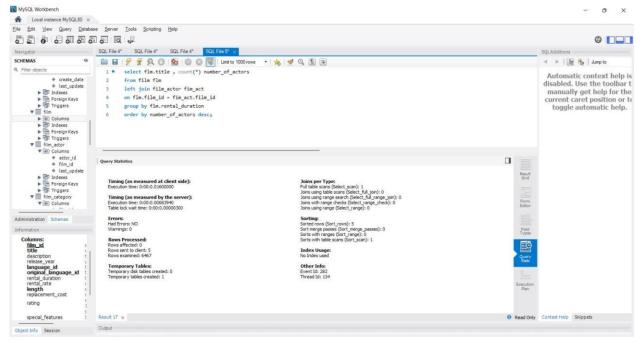
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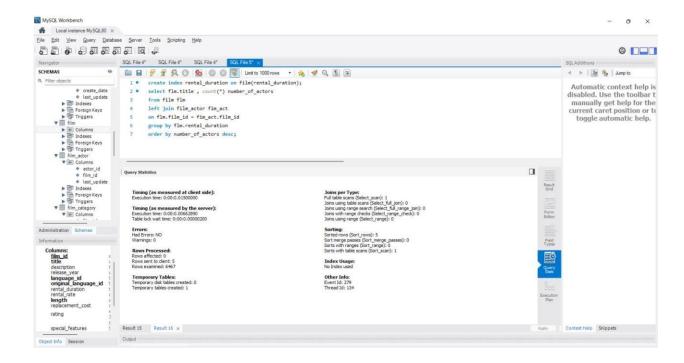
3) LEFT JOIN



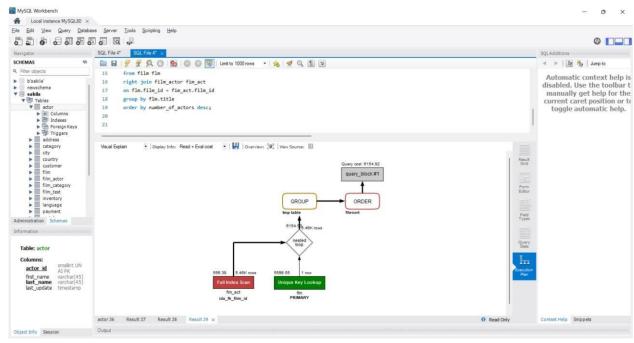
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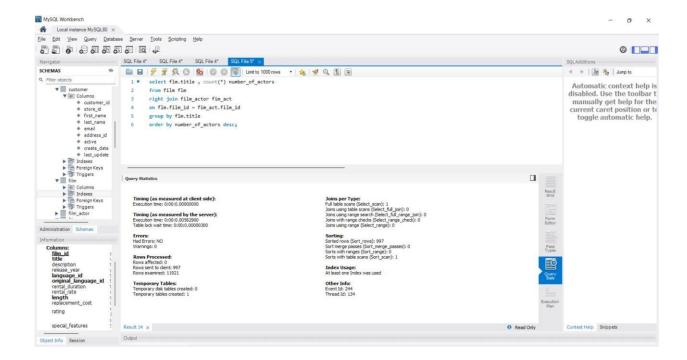
AFTER INDEXING



4) RIGHT JOIN



BEFORE INDEXING



AFTER INDEXING

