Name: Dhruv Bheda SAPID: 60004200102

DIV: B/B1

<u>ADBMS</u>

Exp4

<u>Aim:</u> To implement Query Monitor

Theory:

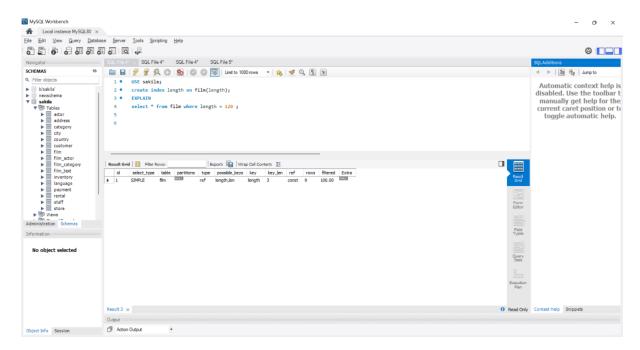
•	Dhrov. A. Bheda 60004200102 31
10	Theory:
	To SOL, EXPLAIN Keyword provides a description
	of how the SOL queries are executed by databases.
	These descriptions include optimizer logs, how tables
	will some as in which grader etc. Hence it would
	be beneficial tool in query optimization & knowing
	the details of this execution step by stem. explain
0	also takes care of the fact that a user
	database, will not be provided details about
	how it executes the queries. Here it maintains
	security.
	The main thing to note about EXPLAINAR
	that it will be essent at beginning of query i.e
	before SELECT, INSERT, UPDATE SE EXPLAIN
	key-word results in their output using some
	column names as shown. The are explained
\sim	below:
	rd: - It represents the rd of the query which is
	to be explained
	SELECT-TYPE: - The complexity in the select clause
	is showed here. In the above case, it is
	very simple
-	KII TI down mma at table used &
	table: - It shows name of table used. F
3	1

Partetions: - This shows the number of partetions of the table formed in the query. type: - It specifies the join Type possible keys: - Which keys could have been used key: which keys are being used key-len: - length of the key used ref: - Mentions any soxt of reforences used in aporty while comparing adumns as not sows: The number of tows over whech query acts. Filtered: - The rows which are filtered: using conditions in WHERE clause Extra: - Some additional details regarding the executed query In this way, EXPLAIN keywood is used to get all the information about the query Eabulate them so that they can be stored in DB for further references FOR EDUCATIONAL USE

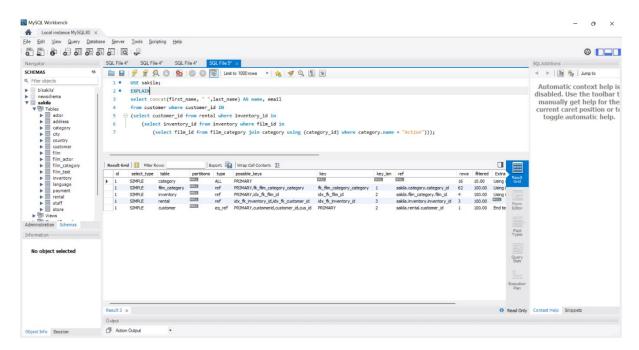
	The following are most common limitation of EXPLAIN keywood in mysql:-
	EXPLAIN doesn't provide any information about how the triggers, stored functions, or UDFs will affect our query. The EXPLAIN keyword cannot work for stored procedures. It doesn't tell you about optimization, Mysol
0	does during query execution. It produces the estimated statistics that Can be very irracurate. It doesn't produce every information regarding a query's execution plan.
0	

Output:

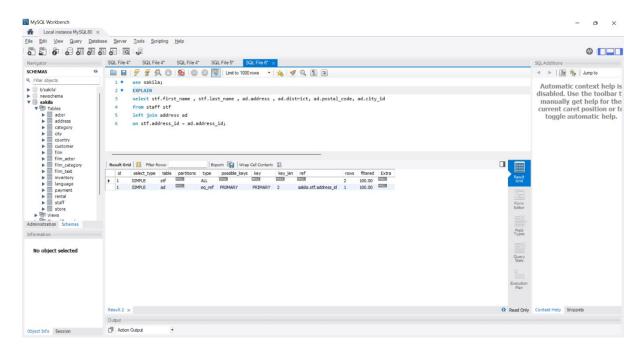
1) SELECT QUERY



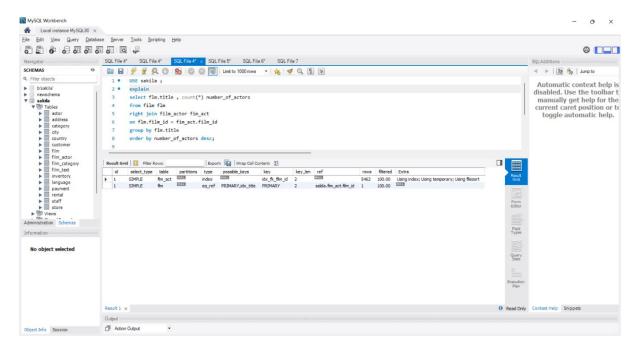
2) NESTED



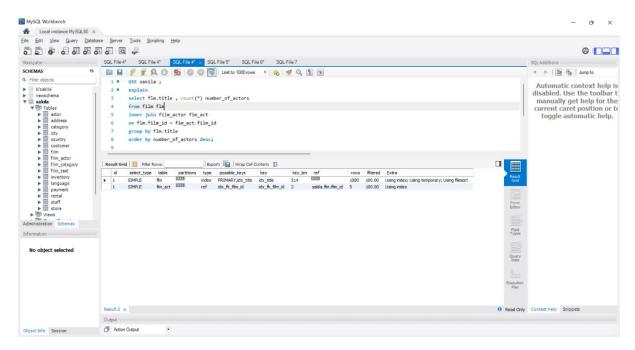
3) LEFT JOIN



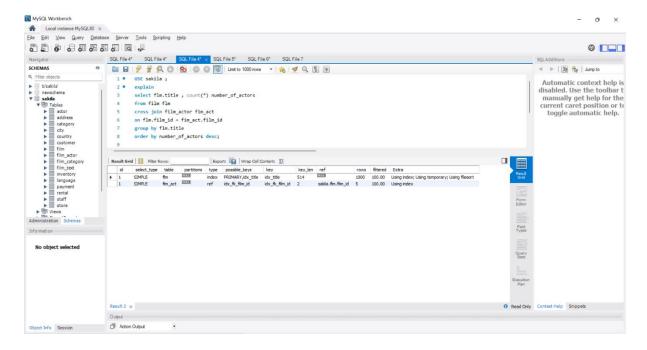
4) RIGHT JOIN



5) INNER JOIN



6) CROSS JOIN



Conclusion:

Thus, we implemented and studied query monitor