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Batch : Comps C'32

Subject : Advance Database Management System (ADBMS)

Experiment No 3 - Query Monitoring

Aim : Implementation of Query monitor (QEP- Query Execution Plan, Query Statistics)

Write Ups :

19/10/2023	ADBMS Exp 3
	Aim : Implementation of Query Monitoring
	Theory :
	<p>SQL Query Monitoring is the process of monitoring the performance & output of SQL queries. A SQL query can be simple or complex, but it is defined with a definite purpose.</p> <p>Eg : Retrieving the details of all cars sold last year.</p> <p>The main purpose of SQL query monitoring is to determine if the query is able to fulfill the purpose with the expected time & whether it is able to provide the required output. Monitoring is also used for identifying performance improvement measures.</p>
	Components
	<p>(1) Result Grid :</p> <p>The result area of the screen shows from executed statements. If the script contains multiple statements, a result subtab will be generated for each statement.</p>
	<p>(2) Field Types :</p> <p>It is used to list down the fields of all relation mentioned in the query with field name, schema, table name, type of attribute, character set, display size, precision, scale.</p>

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(3) Query Stats

Query stat editor results tab uses performance, schema data to gather key statistics collected for executed query such as timing, temporary tables, indexes, joins, etc

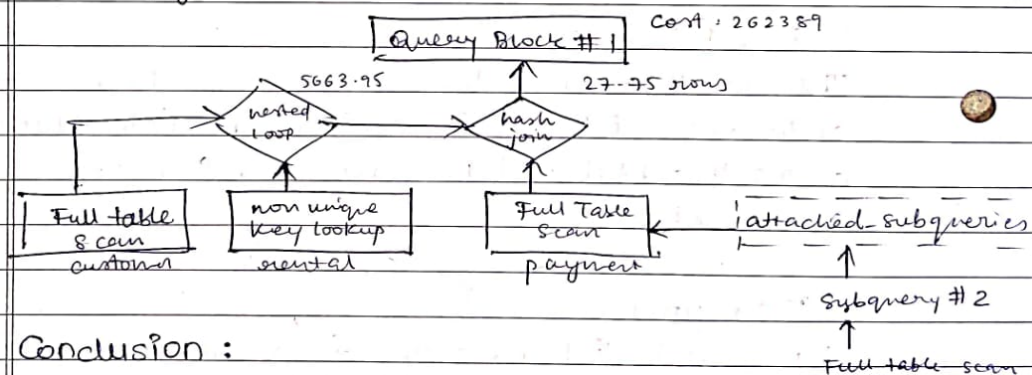
(4) Execution Plan

To view a visual explain execution plan, execute the query & then select execution plan with the results tab

The execution plan defaults to visual explain, but includes a tabular explain

Query :

SELECT * FROM CUSTOMER, RENTAL, PAYMENT WHERE
Customer, Customer-id AND amount = (SELECT MAX(Amount)
FROM payment)



Conclusion :

To conclude, we briefly understand the components of query monitor & implemented it

Screenshots :

