Minutes of Meeting.

Meeting Objective: Understand the processing of a query, and Execute and analyze the role of subqueries in an execution schema and discussion-7.

Date: 16-05-2024.

Time: 11:30.am.

Location: JAIN (Deemed-to-be-university), Faculty of Engineering and Technology.

Attendees:

1.Mr. Akash, Futurense Technologies,
2.K shreeshanth.
3.Chethan Y.
4.Jeyapathy m.
5.Vishnu.
6.wajith ,fellow colleagues of batch 2024 ,jain university.

Meeting agenda:

1. **To adapt the best practices between using join and subquery that is suitable for a given scenario.**

2. **A better understanding on the execution flow of select statements.**

3. **Execute queries to understand the different scenarios where joins and subqueries are preferred.**

1. **Adaptation of Best Practices for Joins vs. Subqueries**

   - **Joins**:
     - **Use Case**: Preferred when combining rows from two or more tables based on a related column.
     - **Performance**: Typically faster for large datasets when properly indexed.
     - **Readability**: Easier to read when multiple tables are involved and relationships are clear.
   - **Subqueries**:
     - **Use Case**: Useful for filtering results or performing operations on a subset of data.
     - **Performance**: Can be slower for large datasets; optimization depends on the query structure.
     - **Readability**: More readable for complex filtering conditions where the main query remains straightforward.

2. **Understanding the Execution Flow of SELECT Statements**

   - **Order of Execution**:
     - **FROM**: Tables and joins are processed.
     - **WHERE**: Filters are applied to the results of the FROM step.
     - **GROUP BY**: Grouping of results is performed.
     - **HAVING**: Filters groups according to specified conditions.
     - **SELECT**: Columns are selected.
     - **ORDER BY**: Results are ordered.

- **LIMIT/OFFSET**: Limit the number of rows returned.

Next Meeting: The next meeting will be scheduled for 17-05-2024 [1:30]. The agenda will focus on the advance sql and views in the sql.

Minutes Prepared By:

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