

Meeting Minutes - DAY 15

Meeting Topic	Date	Time
Optimizing SQL Queries for Efficient Data Retrieval and Analysis	16/05/2024	11:30 AM to 1:00 PM
Company	Location	Mode
FUTURENSE	Jain University - SET	Online: Via Zoom

ATTENDEES

- FUTURENSE TECHNOLOGIES
- SPEAKER: MR. AKASH DAS
- 2ND YEAR STUDENTS OF CSE - ARTIFICIAL INTELLIGENCE & DATA ENGINEERING OF JAIN UNIVERSITY
- SET: FROM USN: 22BTRAD001 -22BTRAD030

AGENDA

- REVIEW SQL QUERIES FOR RETRIEVING EMPLOYEE INFORMATION FROM USA OFFICES.
- UNDERSTAND THE EXECUTION ORDER OF SQL QUERIES AND THE ROLE OF SUBQUERIES.
- DISCUSS QUERY OPTIMIZATION TECHNIQUES SUCH AS CONVERTING SUBQUERIES TO JOINS.
- RETRIEVE CUSTOMER INFORMATION FOR THE HIGHEST PAYMENT USING SQL.

DISCUSSION

- WE REVIEWED SQL QUERIES TO RETRIEVE EMPLOYEE INFORMATION FROM USA OFFICES, FOCUSING ON BOTH JOIN AND SUBQUERY APPROACHES.
- EXPLORED THE EXECUTION ORDER OF SQL QUERIES AND DISCUSSED HOW SUBQUERIES ARE INTERNALLY CONVERTED TO JOINS FOR OPTIMIZATION.
- CONSIDERED DIFFERENT TECHNIQUES FOR RETRIEVING DATA, SUCH AS USING ORDER BY DESC AND MAX() FUNCTION.
- DISCUSSED THE ADVANTAGES AND SCENARIOS WHERE SUBQUERIES AND JOINS ARE PREFERRED.

DECISION

- IT WAS DECIDED TO USE A SUBQUERY APPROACH TO RETRIEVE THE CUSTOMER INFORMATION FOR THE HIGHEST PAYMENT.
- THE TEAM AGREED ON THE IMPORTANCE OF UNDERSTANDING SQL QUERY EXECUTION AND OPTIMIZATION TECHNIQUES FOR EFFICIENT DATABASE OPERATIONS.
- IT WAS EVIDENT THAT STUDENTS HAVE REACHED AN INTERMEDIATE LEVEL IN MYSQL DATA ANALYSIS, UNDERSTANDING QUERY EXECUTION, OPTIMIZATION TECHNIQUES, AND UTILIZING FUNCTIONS LIKE SUBQUERIES AND JOINS EFFECTIVELY.

ASSIGNMENTS

- COMPLETE ASSIGNED TASKS: DISCUSSION 7 AND DISCUSSION 51, DUE BY EOD (16/05/2024).
- UPLOAD THIS SESSION'S MOM.

ACTION ITEMS

- IMPLEMENT THE SQL QUERY TO RETRIEVE CUSTOMER INFORMATION FOR THE HIGHEST PAYMENT USING THE MAX() FUNCTION.
- EXPERIMENT WITH DIFFERENT OPTIMIZATION TECHNIQUES AND COMPARE QUERY PERFORMANCE.
- DOCUMENT THE KEY LEARNINGS FROM THE DISCUSSION REGARDING SQL QUERY EXECUTION AND OPTIMIZATION.

NEXT MEETING

SCHEDULED FOR 17/05/2024 FROM 11:30 AM TO 1:00 PM AND 2:00 PM TO 3:40 PM.