**CONTRIBUTION TABLE FOR ASSIGNMENT 3**

**Group No: 24** – **Individual Contributions**

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| --- | --- | --- | --- |
| **Group no 24: Individual Contribution** | | | |
| **CWID** | **Name** | **Contribution (description)** | **Percent Contribution** |
| **A20561274** | **Akshith Goud Kasipuram** | **Implemented key record management functions, optimized table creation, ensured buffer pool integration, structured schema, and designed record retrieval mechanisms.** | **25%** |
| **A20546868** | **Rahul Tatikonda** | **Developed scanning functionalities, error handling mechanisms, schema management operations, and optimized data retrieval and memory management** | **25%** |
| **A20489414** | **Jacob Bode** | **Worked on record insertion, updates, and deletion. Ensured proper slot allocation, marking of records, and maintained data integrity during modifications.** | **25%** |
| **A20560828** | **Prithwee reddei patelu** | **Specialized in utility functions, debugging, and testing. Handled buffer operations, schema validation, and refined error detection mechanisms to enhance system stability.** | **25%** |

### **Detailed Work Breakdown Summary**

#### **Akshith Goud Kasipuram**

* Designed and implemented **core record management functions**, ensuring efficient data storage and retrieval.
* Optimized **table creation and schema definition**, making it scalable and adaptable for different data structures.
* Integrated the **buffer pool mechanism** effectively, ensuring smooth interaction between storage and memory.
* Developed the **record retrieval mechanisms**, ensuring records could be accessed efficiently with minimal overhead.
* Provided **technical leadership** and code structuring guidance to maintain coherence across the project.

#### **Rahul Tatikonda**

* Developed **scanning functionalities** for record management, allowing efficient traversal and filtering of records.
* Implemented **error handling mechanisms**, ensuring robustness and clear debugging pathways.
* Worked on **schema management operations**, optimizing attribute storage and retrieval.
* Focused on **efficient data retrieval and memory management**, reducing memory leaks and optimizing runtime performance.

#### **Jacob Bode**

* Implemented **record insertion, updates, and deletion functions**, ensuring proper slot allocation.
* Designed **data integrity mechanisms** to prevent inconsistencies during record modifications.
* Ensured correct **marking of records** for identification, facilitating smooth record transactions.
* Worked on **handling slot management** efficiently to minimize fragmentation and improve performance.

#### **Prithwee Reddei Patelu**

* Developed **utility functions** that supported various operations across the record manager.
* Conducted **debugging and extensive testing**, identifying and resolving issues in core functionalities.
* Handled **buffer operations and schema validation**, ensuring proper loading and management of schema structures.
* Improved **error detection mechanisms**, making the system more stable and resilient to failures.

### **Final Review & Approval:**

All team members have **reviewed and agreed upon** this contribution breakdown.  
This document serves as the **final and accurate record of contributions**.

**Output Video Link:**

[https://www.loom.com/share/3fe04c5aaeaf4cb382350f1d9024f569?sid=b40f60de-befa-492a-8b50-c4499993a3f3](https://www.loom.com/share/d916a5f0e6164a35b28b6191a20b4198)