|  |  |  |
| --- | --- | --- |
| Luca Peralta  [Paradoxluca44@gmail.com](mailto:Paradoxluca44@gmail.com)  45158392 | | |
| Dear Client,  I hope this email finds you well.  I am pleased to inform you that I have successfully completed the data integration as per your request. The normalized data has been integrated into the PHPMyAdmin database, ensuring optimal efficiency and compliance with database normalization standards.  Please find attached the detailed report for your reference (Assessment 2.3), as well as the sign-off form for the completion of this task.  Should you have any questions or need further clarifications, feel free to reach out.  Best regards, Luca Peralta Sign-Off Form Client Name:  Project: Data Integration and Normalization  Completion Date:  Client Signature: Assessment 2.3 Data Normalization and Integration into Database Author: Luca Peralta Date: October 2024  Task: Data normalization and integration into PHPMyAdmin database  Summary of Task: The task involves normalizing the given data from two tables ('Worst Generation' and 'Ships') into 3NF and integrating the data into a MySQL database using PHPMyAdmin. This document outlines the step-by-step process of normalizing the data.  Steps of Breaking the Tables to 3NF: 1NF (First Normal Form): Ensuring atomic values, eliminating repeating groups, and ensuring unique identification using the primary key. 2NF (Second Normal Form): Eliminating partial dependencies by splitting composite primary key tables or separating non-dependent attributes. 3NF (Third Normal Form): Removing transitive dependencies, ensuring that attributes only depend on the primary key.  Design Plan of Database Tables: After normalization, the data will be split into three main tables:  1. `worst\_generation`: Contains the members of the worst generation, their ID, name, and affiliation.  2. `ships`: Contains the ship details including ship ID, name, and affiliation.  3. `affiliations`: Stores the affiliation information to ensure affiliations are linked between ships and worst generation members.  Detailed SQL commands and a discussion on linking the tables via foreign keys are provided in the full assessment (2.3). | | |
|  |  |  |
|  |  |
|  |  |