

MY PROJECT BRIEF DOCUMENTATION

Documentation: SQL Dump

- **Software:** phpMyAdmin
- **Version:** 5.2.1
- **Website:** phpmyadmin.net
- **Host:** 127.0.0.1
- **Generation Time:** Apr 30, 2024 at 02:24 PM
- **Server version:** 10.4.28-MariaDB
- **PHP Version:** 8.0.28

Database: `Eclass management system`

Table: `assessment`

- **Structure:**
- `assessment_id` INT(12) NOT NULL
- `assessment_title` VARCHAR(23) NOT NULL
- `due_date` VARCHAR(30) NOT NULL
- `maximum_score` VARCHAR(12) NOT NULL
- `grading_rubric` VARCHAR(6) NOT NULL
- `course_id` INT(23) NOT NULL
- **Primary Key:** `assessment_id`
- **Engine:** InnoDB
- **Character Set:** utf8mb4
- **Collation:** utf8mb4_general_ci

Table: `attendance`

- **Structure:**
- `attendance_id` INT(34) NOT NULL
- `student_id` INT(23) NOT NULL
- `course_id` INT(23) NOT NULL
- `date` VARCHAR(30) NOT NULL
- **Primary Key:** `attendance_id`
- **Engine:** InnoDB

- **Character Set:** utf8mb4
- **Collation:** utf8mb4_general_ci

Table: content

- **Structure:**
- `content_id` INT(34) NOT NULL
- `content_title` VARCHAR(23) NOT NULL
- `upload_date` VARCHAR(30) NOT NULL
- `author` VARCHAR(11) NOT NULL
- **Primary Key:** `content_id`
- **Engine:** InnoDB
- **Character Set:** utf8mb4
- **Collation:** utf8mb4_general_ci

Table: course

- **Structure:**
- `course_id` INT(34) NOT NULL
- `course_title` VARCHAR(23) NOT NULL
- `start_date` VARCHAR(30) NOT NULL
- `end_date` VARCHAR(30) NOT NULL
- `enrolled_students` VARCHAR(12) NOT NULL
- `course_materials` VARCHAR(23) NOT NULL
- **Primary Key:** `course_id`
- **Engine:** InnoDB
- **Character Set:** utf8mb4
- **Collation:** utf8mb4_general_ci

Table: student

- **Structure:**
- `student_id` INT(43) NOT NULL
- `first_name` VARCHAR(23) NOT NULL
- `last_name` VARCHAR(34) NOT NULL
- `registration_number` INT(12) NOT NULL
- `email_address` VARCHAR(30) NOT NULL
- `password` VARCHAR(90) NOT NULL
- `course_id` INT(23) NOT NULL
- **Primary Key:** `student_id`
- **Engine:** InnoDB
- **Character Set:** utf8mb4
- **Collation:** utf8mb4_general_ci

Table: `user`

- **Structure:**
- `user_id` INT(10) NOT NULL
- `user_name` TEXT NOT NULL
- `dateofbirth` TEXT NOT NULL
- **Primary Key:** `user_id`
- **Engine:** InnoDB
- **Character Set:** latin1
- **Collation:** latin1_swedish_ci

Notes:

- Each table includes its structure, primary key, engine, character set, and collation.
- Data has been dumped for each table.
- AUTO_INCREMENT has been set for appropriate columns.
- Indexes have been defined for each table.
- The SQL dump includes the configuration settings and environment details at the beginning.
- The dump concludes with transactional statements and the restoration of old character set and collation settings.

System usability

1. **Software Details:**

- Software: phpMyAdmin
- Version: 5.2.1
- Website: phpmyadmin.net
- Host: 127.0.0.1
- Generation Time: Apr 30, 2024 at 02:24 PM
- Server version: 10.4.28-MariaDB
- PHP Version: 8.0.28

2. **Database: `eclass management system`:**

- This section contains the structure and data for various tables within the database.

3. **Tables:**

- **assessment:** Contains details about assessments, including their titles, due dates, maximum scores, grading rubrics, and associated course IDs.
- **attendance:** Stores records of student attendance, including their IDs, course IDs, and dates.
- **content:** Holds information about uploaded content, such as titles, upload dates, and authors.
- **course:** Stores details about courses, including titles, start and end dates, enrolled students, and course materials.
- **student:** Contains student information, including names, registration numbers, email addresses, passwords, and associated course IDs.
- **user:** Stores user details, including IDs, usernames, and dates of birth.

4. **Indexes and Keys:**

- Each table has a primary key defined.
- Indexes are added for efficient data retrieval.

5. **Character Set and Collation:**

- Tables are using various character sets and collations for proper data handling.

6. **AUTO_INCREMENT:**

- AUTO_INCREMENT is set for appropriate columns to automatically generate unique IDs.

7. **Transaction and Configuration Settings:**

- The SQL dump begins with transactional and configuration settings.
- Configuration settings such as SQL mode and time zone are defined.

8. **Conclusion:**

- The SQL dump concludes with the restoration of old character set and collation settings

The provided code snippets include HTML, CSS, and PHP code for various forms, tables, and other elements related to an e-class management system. Let's briefly document each section:

1. **Assessment Table:**

- The code displays a table listing assessment details such as assessment ID, student ID, course ID, date, and options to delete or update each assessment record.
- PHP code is used to fetch and display assessment data from the database.
- Links for deleting and editing assessment records are provided.

2. **Content Form:**

- This form allows users to add new content to the system.
- Fields include content title, upload date, and author.
- Data is submitted to `content_table.php` for processing.
- Bootstrap CSS and JS dependencies are included for styling and functionality.

3. **Content Table:**

- Similar to the assessment table, this code displays a table listing content details such as content ID, title, upload date, author, and options to delete or update each content record.
- PHP code is used to fetch and display content data from the database.
- Links for deleting and editing content records are provided.

4. **Course Form:**

- This form allows users to add new courses to the system.
- Fields include course ID, title, start date, end date, and course materials.
- Data is submitted to `course_table.php` for processing.
- Bootstrap CSS and JS dependencies are included for styling and functionality.

5. **Course Table:**

- Similar to the assessment and content tables, this code displays a table listing course details such as course ID, title, start date, end date, course materials, and options to delete or update each course record.
- PHP code is used to fetch and display course data from the database.
- Links for deleting and editing course records are provided.

6. **Navigation and Home Page:**

- The navigation menu provides links to various sections such as home, about, services, contact, forms, tables, and settings.
- The home page (`home.html`) includes a welcome message and a brief description of the e-class management system.
- Background images and styling are applied to enhance the visual appearance.

7. **Login Form:**

- PHP code for user authentication is included, checking the provided email and password against the database records.
- If valid credentials are provided, the user is redirected to the home page.
- Error messages are displayed for invalid credentials or missing form fields.

1. **Eclass Management System:**

Form Submitted:

- Form for adding new students to the system.

Importance:

- Centralizes student information: The system collects and organizes student data, including personal details, registration numbers, and course enrollments, in one place.
- Simplifies student management: Allows administrators to efficiently add new students, update existing records, and manage course registrations.
- Enhances user experience: Provides students with a user-friendly interface to access their academic information, improving overall satisfaction.

2. Government Revenue Management System:**Form Submitted:**

- Form for registering taxpayers and managing revenue-related data.

Importance:

- Streamlines revenue collection: Enables government agencies to register taxpayers, track revenue transactions, and manage agent activities effectively.
- Ensures transparency: Facilitates accurate recording and tracking of revenue data, promoting transparency and accountability in financial operations.
- Enhances decision-making: Provides comprehensive insights into revenue trends and taxpayer behavior, supporting data-driven decision-making for policy formulation.

3. Enterprise Management System:**Form Submitted:**

- Form for adding new products to the enterprise inventory.

Importance:

- Optimizes inventory management: Enables enterprises to maintain an accurate record of product inventory, including quantities available, prices, and added dates.
- Supports sales operations: Facilitates efficient tracking of product sales and user interactions, aiding in sales forecasting and customer relationship management.
- Promotes business growth: Empowers enterprises to make informed decisions based on real-time data insights, driving business growth and competitiveness.

In summary, each project serves a specific purpose in enhancing organizational efficiency and facilitating data-driven decision-making. The Eclass Management System streamlines student management, the Government Revenue Management System ensures transparency in revenue collection, and the Enterprise Management System optimizes inventory and sales operations for business growth.