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DAY 04 - LEARNING OUTCOMES

* During Day 4, I learned the following key concepts and techniques:
* phpMyAdmin: Explored the features and accessed phpMyAdmin using XAMPP.
* Table Design: Discussed how to determine the necessary tables for a project and create tables with specified attributes using phpMyAdmin.
* Auto-Increment: Utilized the Auto-Increment feature to automatically generate unique IDs for table records.
* CRUD Operations: Implemented the CRUD (Create, Read, Update, Delete) operations for manipulating data in tables.
* Forgot Password Functionality: Implemented the Forgot Password feature using SQL queries.
* Identifying Hidden Table Requirements: Identified table requirements that are not immediately apparent, such as creating a separate devices table in the eventer project.
* ENUM Data Type: Utilized the ENUM data type to define columns with a predefined set of values.
* Object Concept: Understood the concept of objects and the importance of using object\_id and object\_type to simplify data management.
* Efficient Data Storage: Emphasized the significance of creating separate tables (e.g., attachments table) instead of adding restricted additional columns (e.g., image) to every table, ensuring non-redundant data storage.
* Joining Tables: Learned how to join different tables to retrieve required data and maintain the rules of normalization.
* Subqueries: Developed subqueries to retrieve specific data within a larger query.
* JSON: Explored the usage of JSON for storing and manipulating data.
* Building APIs: Learned how to build and utilize APIs for data communication.
* SQL Query Techniques: Utilized advanced SQL query techniques, such as CONCAT, NOW(), DATE\_FORMAT, CASE statements, and COUNT(\*) for data retrieval and manipulation.
* INNER JOIN: Applied the INNER JOIN operation to combine related data from multiple tables.