feedback-SQL

Work of SQL

In Admin Dashboard project, SQL (Structured Query Language) plays a crucial role in managing and interacting with the database that stores user and system information.

use of SQL in this project:

1. Storing User Data

When users register or update their personal information (like name, email, password), SQL is used to insert or update that data in the database.

- Example: Inserting a new user during sign-up.
- Updating personal info like name or password.

2. Retrieving User Information

When the admin clicks "Generate Report", an SQL query is executed on the backend to select user records from the database.

- Example: SELECT name, email FROM users retrieves the data needed to display in the report.

3. Validating Login Credentials

When a user tries to log in, SQL is used to check if the provided email and password match a record in the database.

- This involves a SELECT query to verify user credentials.

4. Managing User Roles (Admin/User)

SQL can be used to store user roles and restrict access based on role.

- Example: Only users with the "admin" role can access admin features.

5. Updating Settings

If the user changes settings like their theme or password, SQL is used to update the corresponding records in the database.

6. Backend Communication

All backend scripts (like update_personal_info.php or generate_report.php) use SQL to:

- **Fetch data (SELECT)**
- **Insert data (INSERT)**
- **Modify data (UPDATE)**
- **Remove data (DELETE)**