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A Hotel Management System Project for College

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Week 3 SQL queries for data retrieval and testing

53b4cf0 · now

.DS_Store	Week 1	2 hours ago
README.md	Update README.md	13 minutes ago
week1-plan.txt	Week 1	2 hours ago
week2_database.sql	Added Week 2 SQL Code	1 hour ago
week3_queries.sql	Week 3 SQL queries for data retrie...	now

Hotel Management System – SQL Project

This project is a simple Hotel Management System developed using MySQL. It covers basic operations like guest management, room booking, payments, and staff data handling, following standard hotel operations.

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Week 1: Project Planning and Requirement Analysis

- Defined project scope and features:
 - Guest management
 - Room booking
 - Check-in / Check-out
 - Payments
 - Staff management
 - Room types
 - Reports (revenue, occupancy)

- Researched hotel operations
- Listed key functional requirements
- Selected MySQL as the SQL database system
- Set up GitHub for version control and progress tracking

Week 2: Database Design

- Created MySQL database: `hotel_management`
- Designed and created the following tables:
 - `guests`
 - `rooms`
 - `bookings`
 - `payments`
- Added appropriate data types, constraints, and foreign key relationships
- Created a stored procedure to auto-insert 100 sample guest records
- Inserted sample data into `rooms`, `bookings`, and `payments`
- Saved schema as `week2_schema.sql` and pushed to GitHub

Week 3: SQL Queries and Testing

- Wrote and tested SQL queries:
 - `SELECT` with `WHERE`, `ORDER BY`, `LIMIT`
 - `JOIN` queries across `guests`, `rooms`, `bookings`, and `payments`
 - `INSERT`, `UPDATE`, and `DELETE` operations
- Tested query output in MySQL Workbench
- Handled foreign key constraint issues correctly
- Saved all queries in `week3_queries.sql` and committed to GitHub

Tools Used

- MySQL Workbench (Database design, execution)
- GitHub (Version control)
- SQL (MySQL syntax)

Repository Structure



Authors

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Institute: Pace University



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