

Short Report

Throughout our project journey, our team applied the knowledge we gained over the past few months essential for creating a hotel reservation system database design.

The project was divided into four phases, where we learned the importance of following each step and not underestimating any stages. During the creation of the Entity-Relationship Diagram (ERD), we became quite familiar with DRAW.io and discovered its numerous benefits. We implemented data integrity constraints such as primary keys, foreign keys, and unique constraints to ensure data consistency and prevent errors. Gaining experience in schema management and table management was another important part of our learning. For the Data Manipulation Language (DML) stage, we used various methods to generate data. We also made several adjustments to this generated data to ensure it was well-suited for our queries. By designing interconnected tables, we aimed to normalize the data effectively. Writing commands to work with databases, like creating new tables or finding specific information, was a big part of our learning. As a team, we maintained constant communication and divided the work equally among group members. We used various communication channels to ensure that everyone was working with the most recent updates from our peers. In every phase of the project, tasks were evenly distributed among team members, and collaborative face-to-face meetings ensured seamless coordination.

Overall, the hotel management project provided us with invaluable practical experience in database design, which will definitely be very important in the future. Through hands-on implementation and trying to solve the problems that we came up with we gained a deeper understanding of constructing database-driven applications.