

HOTEL MANAGEMENT SYSTEM

CENG 301

Database Systems

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Scenario

In our project 'Hotel Management System' , we have tried to show how the Data and information in hotels is managed. This is just an overview of management in hotels. Firstly, we created tables ; guest, employee, guestreservation, payment and room. We defined ourselves as employees and we developed an app for saving guests, which guest to stay which rooms and checkIN, checkOUT dates. The program developed for facilitate of all these things and a comfortable use.

First of all we created a MS Teams group about our project. In this group we talked about which projects are appropriate and which one is most interesting for us. Nearly we talked at online 20 hours. We did some research about all the topics and decided on our topic; Hotel Management System. After that, we started research in ön hazırlıkdepth about our topic. On the internet there were many examples and it helped us to form the main idea about the project. We did a small meeting on MS Teams and determined the entities and relations for database and ER Diagram. After that, we start searching the most useful ERD maker websites or programs and we found lucidchart.com . It was the most useful among others. We created our ER Diagram model on this website and also we draw the mapping of it.

On the second part of our project, we used Microsoft SQL Server Management Studio for SQL codes and we have determined the preliminary preparation for the project. We created a database with SSMS. Then we started creating tables from Entity Relationship Diagram. Firstly we created room table then we created guest table and, then we generate other tables in order. The third table is GuestReservation. Our fourth table is payment table and the last table is employee table.

Then we started to enter data to all tables in SQL with using Entity Relationship Diagram and mapping we created before. With mapping datas we start coding on SQL. We realized of our mistakes on mapping and ER Diagram. There were some inconsistencies and we fixed them.

Also we used UPDATE module for make changes on SQL. For the employee table we need to define persons and we used INSERT INTO method for it.

As we started working on the project , we realized what we thought were missing. For those shortcomings we decided the best method is ALTER TABLE method and used it for adding to our database. After that, to display table names we used 'select from' method.

Then we noticed we had mistakes on Entity Relationship Diagram. So that, we did a rework to fix the errors and we did some changes on ER Diagram and we started again create bugs fixed database because we had mistakes and on SSMS we encountered some errors. After all the problems and mistakes we created the well prepared database for us and we started to making program and design.

In third part of our project, we used C# Form Application on VISUAL STUDIO. We have created forms for our database tables. Then we connected our database with Visual Studio. We use LoginForm method. We created UI Designs of all menu's of our program.

In C# part we created buttons , text boxes and employees can use these buttons and text boxes for guest registration. So, this system entering informations about guests to database.

