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| BIM216 - Database Management Systems |
| tERM PROJECT  logo içeren bir resim  Açıklama otomatik olarak oluşturuldu  *FD Group*  *Furkan Dönmez* |
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*Project*

*During the first phase of the project, we conducted requirement analysis. Here are the questions we asked for the analysis:*

* *What is the purpose of the database? What to do?*
* *Who are the users and what are their information needs?*
* *What problems does the system need to solve?*
* *What input data can be used for the database?*
* *What kind of information should be stored in the database?*

*These questions helped us gather essential information and understand the scope of the project before proceeding to the next phases.*

*In the first phase, we had advanced queries. Here are the queries we used:*

* *Which plan is the most preferred client plan?*
* *What are the most watched movies?*
* *Who is the client with the longest time subscription?*
* *Which clients haven't watched any movies for a long time?*
* *What is client favorite movie genre?*

*These advanced queries helped us dive deeper into the project requirements and ensure we had a comprehensive understanding of the project's complexities and expectations.*

*In Phase 2, we made corrections to our E/R Diagram and ensured its accuracy. Additionally, we transformed the E/R Diagram into a relational schema and applied normalization techniques to eliminate data redundancies and improve efficiency. To implement the database, we utilized MySQL and created tables that align with our schema. We proceeded to populate these tables with the relevant data. As a result, we obtained the finalized database schema from our MySQL system, which accurately reflects the structure and relationships of our data. Throughout this process, we identified and rectified any errors or inconsistencies to ensure the integrity and reliability of our database.*

*siyah beyaz, daire, ekran görüntüsü, sanat içeren bir resim

Açıklama otomatik olarak oluşturuldu*

**E-R Diagram**

*Electronic Version:* [*https://embed.creately.com/e35f1TZysVB?token=OwGx5apHX5GcoAHD&type=svg*](https://embed.creately.com/e35f1TZysVB?token=OwGx5apHX5GcoAHD&type=svg)

Relational Database Schema

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*Our database contains over 5000 entries reflecting the progress of more than 500 customers.* *To handle the large volume of data, we utilized Python libraries such as Faker and Pandas to generate suitable random data that aligns with our database structure. This generated data was then transferred to an Excel file.* *In order to import the data into our database, we used the "import data" feature of the SQL Server Management Studio program.*

*metin, elektronik donanım, ekran görüntüsü, yazılım içeren bir resim

Açıklama otomatik olarak oluşturuldu*

*metin, ekran görüntüsü, yazılım, multimedya yazılımı içeren bir resim

Açıklama otomatik olarak oluşturuldu*