I began by creating a MySQL container named "mysql\_container" with the root password set to "parola" using the provided command. Upon attempting to import the "company.sql" file into the container, an error occurred due to an incorrect integer value in the file. To resolve this, I replaced the department name "Consulting" with number 6.

A computer screen shot of a black screen

Description automatically generated

Subsequently, I connected to MySQL and successfully imported the "company.sql" file into the database. Following that, I created a new user named "valentina" and granted it full permissions on the "company" database.

A screenshot of a computer

Description automatically generated

A black screen with white text

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Lastly, I executed a SQL query using the SELECT command to calculate the average salary for each department. The query aggregated salary data from the "employees" table, grouping it by department and calculating the average salary for each.

For the bonus:

Mounting a volume in the MySQL container ensures data persistence by storing database files outside the container. First, create a volume using ‘docker volume create mysql\_data’. Then, when starting the MySQL container, use the ‘-v mysql\_data:/var/lib/mysql option’ to mount the volume at the MySQL data directory. This ensures that even if the container is removed or restarted, the data stored in the database will be preserved. This practice is crucial for maintaining data integrity and ensuring that valuable information is not lost.