Blood Donation Database System

Milestone: Application to access database

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Percentage of Effort Contributed by Hrithik Puri: 50%
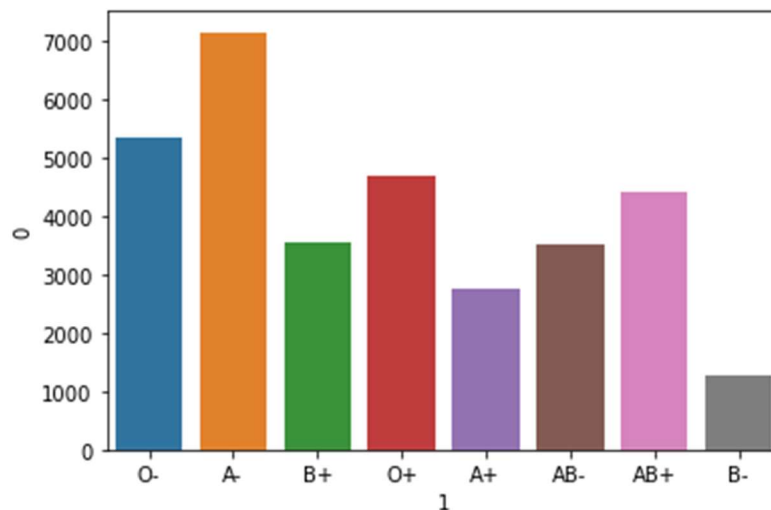Percentage of Effort Contributed by Aryan Fernandes: 50%

Signature of Student 1: Hrithik Puri
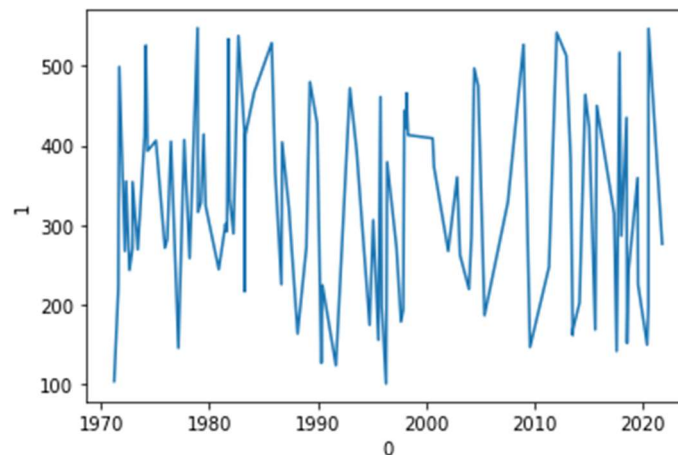Signature of Student 2: Aryan Fernandes

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Database Access via Python

Python is used to access the database. It uses the "mysql.connector" package, which has all functions for connections and SQL queries. To connect to the database "mysql.connector.connect" and to send a query to it a cursor is created, use "con.cursor()", "mycur.execute(query)". The "mycur.fetchall()" function is used to retrieve the result set. The result set list is turned into a dataframe using the pandas package "pd.DataFrame()" function and using the seaborn package "sns.barplot", "sns.lineplot", etc.. for various graphs and additional analysis.
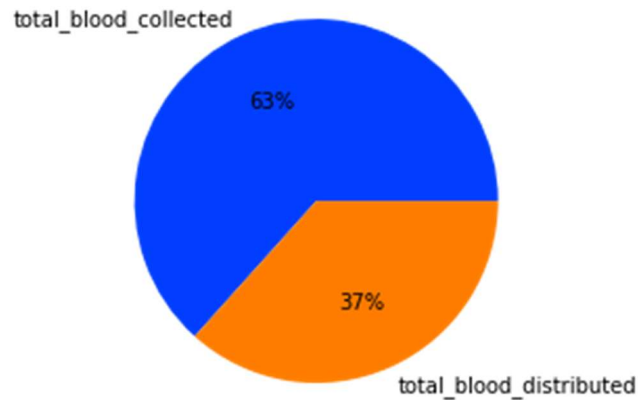
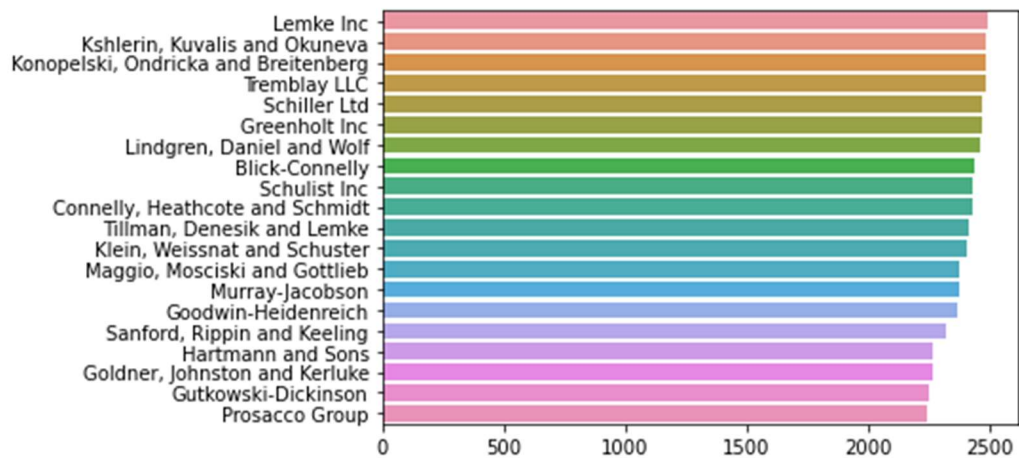### Available blood types and their quantities(ml)

Total quantity of blood in the inventory year wise analysis

Total blood collected and distributed till date

Analysis of top 15 hospitals that ordered blood in high quantities

Analysis of most used payment methods for transactions