We work as an analyst for the telecom operator Megaline. The company offers its clients two prepaid plans, Surf and Ultimate. The commercial department wants to know which of the plans brings in more revenue in order to adjust the advertising budget.

Now we are going to carry out a preliminary analysis of the plans based on a relatively small client selection. We'll have the data on 500 Megaline clients: who the clients are, where they're from, which plan they use, and the number of calls they made and text messages they sent in 2018. Our job is to analyse clients' behaviour and determine which prepaid plan brings in more revenue.

We have been provided with 5 different datasets.

Remember! Megaline rounds seconds up to minutes, and megabytes to gigabytes. For calls, each individual call is rounded up: even if the call lasted just one second, it will be counted as one minute. For web traffic, individual web sessions are not rounded up. Instead, the total for the month is rounded up. If someone uses 1025 megabytes this month, they will be charged for 2 gigabytes.

## Description of the data are as follows:

The users table (data on users):

- user\_id unique user identifier
- first\_name user's name
- last\_name user's last name
- age user's age (years)
- reg\_date subscription date (dd, mm, yy)
- churn\_date the date the user stopped using the service (if the value is missing, the calling plan was being used when this data was retrieved)
- city user's city of residence
- plan calling plan name

The calls table (data on calls):

- id unique call identifier
- call\_date call date
- duration call duration (in minutes)
- user\_id the identifier of the user making the call

The messages table (data on texts):

- id unique text message identifier
- message\_date text message date
- user\_id the identifier of the user sending the text

The internet table (data on web sessions):

- id unique session identifier
- mb\_used the volume of data spent during the session (in megabytes)
- session\_date web session date
- user\_id user identifier

The plans table (data on the plans):

- plan\_name calling plan name
- usd\_monthly\_fee monthly charge in US dollars
- minutes\_included monthly minute allowance
- messages\_included monthly text allowance
- mb\_per\_month\_included data volume allowance (in megabytes)
- usd\_per\_minute price per minute after exceeding the package limits (e.g., if the package includes 100 minutes, the 101st minute will be charged)
- usd\_per\_message price per text after exceeding the package limits
- usd\_per\_gb price per extra gigabyte of data after exceeding the package limits (1 GB = 1024 megabytes)