## **Project description**

#### Context

We are an analyst at a big online store. Together with the marketing department, we've compiled a list of hypotheses that may help boost revenue.

We need to prioritize these hypotheses, launch an A/B test, and analyze the results.

# **Description of the data**

#### Data used in the first part of the project

hypotheses\_us.csv

- Hypotheses brief descriptions of the hypotheses
- Reach user reach, on a scale of one to ten
- Impact impact on users, on a scale of one to ten
- Confidence confidence in the hypothesis, on a scale of one to ten
- Effort the resources required to test a hypothesis, on a scale of one to ten. The higher the Effort value, the more resource-intensive the test.

#### Data used in the second part of the project

orders us.csv

- transactionId order identifier
- visitorId identifier of the user who placed the order
- date of the order
- revenue from the order
- group the A/B test group that the user belongs to

visits\_us.csv

- date date
- group A/B test group
- visits the number of visits on the date specified in the A/B test group specified

Make sure to preprocess the data. There might be mistakes in the original datasets; for example, some of the visitors might have gotten into both group A and group B.

### Part 1. Prioritizing Hypotheses

The file hypotheses\_us.csv contains nine hypotheses on boosting an online store's revenue with Reach, Impact, Confidence, and Effort specified for each. The task is to:

- Apply the ICE framework to prioritize hypotheses. Sort them in descending order of priority.
- Apply the RICE framework to prioritize hypotheses. Sort them in descending order of priority.
- Show how the prioritization of hypotheses changes when you use RICE instead of ICE. Provide an explanation for the changes.

### Part 2. A/B Test Analysis

We carried out an A/B test and got the results described in the files orders us.csv and visits us.csv.