# Build reports

**DAY 1, SESSION 4**

September 18, 2023

posit™ Academy

# Hotel Cancelations

**The journey so far…**

1. R Basics

2. Import and visualize

3. Summarize data

4. Create and select columns

5. Tidy and join tables

# Hotel Cancelations

## 6. Build and publish reports – final milestone!

posit Academy

### Conf Session 4 - Reports

**Recreation**

This week, you learned about creating and customizing reproducible reports in Quarto.

quarto

For this milestone, you'll re-create a Quarto report synthesizing your work from the previous milestones. **View the rendered report here.**

Edit the `hotel-cancelations_06_report-reproducibly.qmd` document to the right to re-create the report. You may wish to copy over code from other milestones.

**Note that you will not need to**

Brendan Cullen
brendan.cullen@rstudio.c...

File   Edit   Code   View   Plots   Session   Build   Debug   Profile   Tools   Help

R 4.2.2

conf_session04_quarto_reports.qmd

Render on Save   Render

Source   Visual
Outline

```r
2  title: Conf Session 4 - Reports
3  format: html
4  ---
5
6  ```{r}
7  #| label: setup
8  #| include: false
9  # Libraries
10 library(tidyverse)
11
12 # Import data
13 hotels <- read_csv("data/hotels.csv")
14 countries <- read_csv("data/countries.csv")
15 ```
16
17 Background
18
19 Hotel guests frequently cancel their reservations, which makes it difficult for hotels to plan around their future
   capacity and revenue. Can we predict which bookings are likely to be canceled?
20
21 This report presents evidence that the origination of a booking contains some signal about whether or not it will be
   canceled: for domestic travelers, reservations made more than a few weeks out are more likely to be canceled than
   kept.
22
23 Data
24
25 This report uses open hotel booking cancelation data from (António, De Almeida, and Nunes
   (2019))(https://www.sciencedirect.com/science/article/pii/S2352340918315191). The following description is adapted
```

1:1   Conf Session 4 - Reports   Quarto

Environment   History   Connections   Tutorial

Import Dataset   220 MiB   List
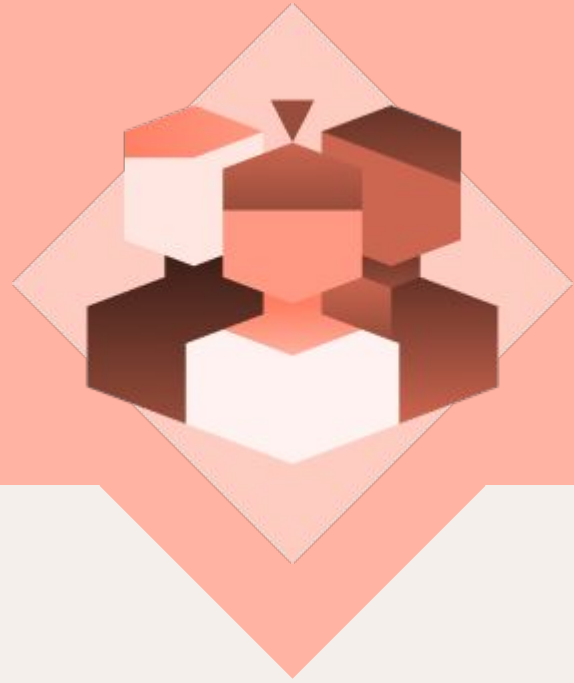
R   Global Environment

Environment is empty

Files   Plots   Packages   Help   Viewer   Presentation

Home   conf_session04_quarto_reports

Name   Size   Modified

..

.Rhistory   0 B   Sep 10, 202...
conf_session04_quarto_reports...   3.3 KB   Sep 9, 2023,
conf_session04_quarto_reports...   205 B   Sep 11, 202...
data
images

Console   Terminal   Background Jobs   Workbench Jobs

R 4.2.2 · ~/conf_session04_quarto_reports/

>

Report an issue

# **Agenda**

1. **Milestone (60 min)**

   a. Recreation - recreate a Quarto report of the hotels data (20 - 30 min)

   b. Extension – make it your own! (30 - 40 min)

2. **Share your report with a partner (20 min)**