Exploring new data

DAY 2, SESSION 6

September 18, 2023

Option 1: Employee Attrition

IBM Employee Attrition and Performance

```
> hr
# A tibble: 1,470 × 22
   employee_number   age attrition business_travel    department                     distance_from_home education  education_field environment_satisfac…¹ gender job_involvement job_role
             <dbl> <dbl> <chr>     <chr>              <chr>                                       <dbl> <chr>      <chr>           <chr>                  <chr>  <chr>           <chr>
 1               1    41 Yes       Travel_Rarely      Sales                                           1 Some coll… Life Sciences   Medium                 Female High            Sales E…
 2               2    49 No        Travel_Frequently  Research & Development                           8 No college Life Sciences   High                   Male   Medium          Researc…
 3               4    37 Yes       Travel_Rarely      Research & Development                           2 Some coll… Other           Very high              Male   Medium          Laborat…
 4               5    33 No        Travel_Frequently  Research & Development                           3 Masters    Life Sciences   Very high              Female High            Researc…
 5               7    27 No        Travel_Rarely      Research & Development                           2 No college Medical         Low                    Male   High            Laborat…
 6               8    32 No        Travel_Frequently  Research & Development                           2 Some coll… Life Sciences   Very high              Male   High            Laborat…
 7              10    59 No        Travel_Rarely      Research & Development                           3 Bachelors  Medical         High                   Female Very high       Laborat…
 8              11    30 No        Travel_Rarely      Research & Development                          24 No college Life Sciences   Very high              Male   High            Laborat…
 9              12    38 No        Travel_Frequently  Research & Development                          23 Bachelors  Life Sciences   Very high              Male   Medium          Manufac…
10              13    36 No        Travel_Rarely      Research & Development                          27 Bachelors  Medical         High                   Male   High            Healthc…
# i 1,460 more rows
# i abbreviated name: ¹environment_satisfaction
# i 10 more variables: job_satisfaction <chr>, marital_status <chr>, monthly_income <dbl>, num_companies_worked <dbl>, over_time <chr>, percent_salary_hike <dbl>,
#   performance_rating <chr>, relationship_satisfaction <chr>, training_times_last_year <dbl>, work_life_balance <chr>
# i Use `print(n = ...)` to see more rows
```
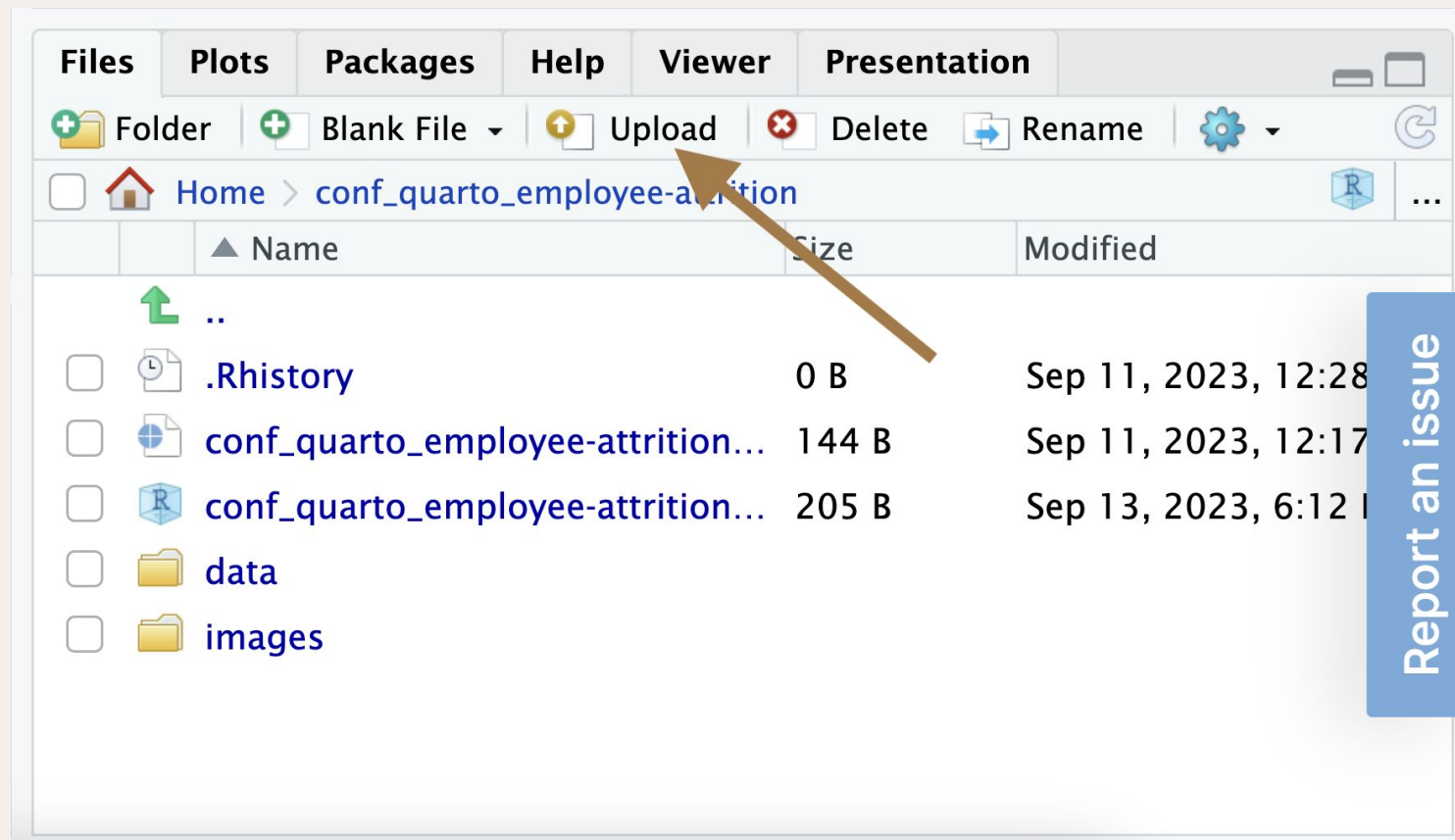
Option 1: Employee Attrition

- **What factors predict whether or not an employee has left the company?**
  - Department?
  - Salary?
  - Job satisfaction?
  - Time at company?
  - Level of education?
  - Demographic factors?
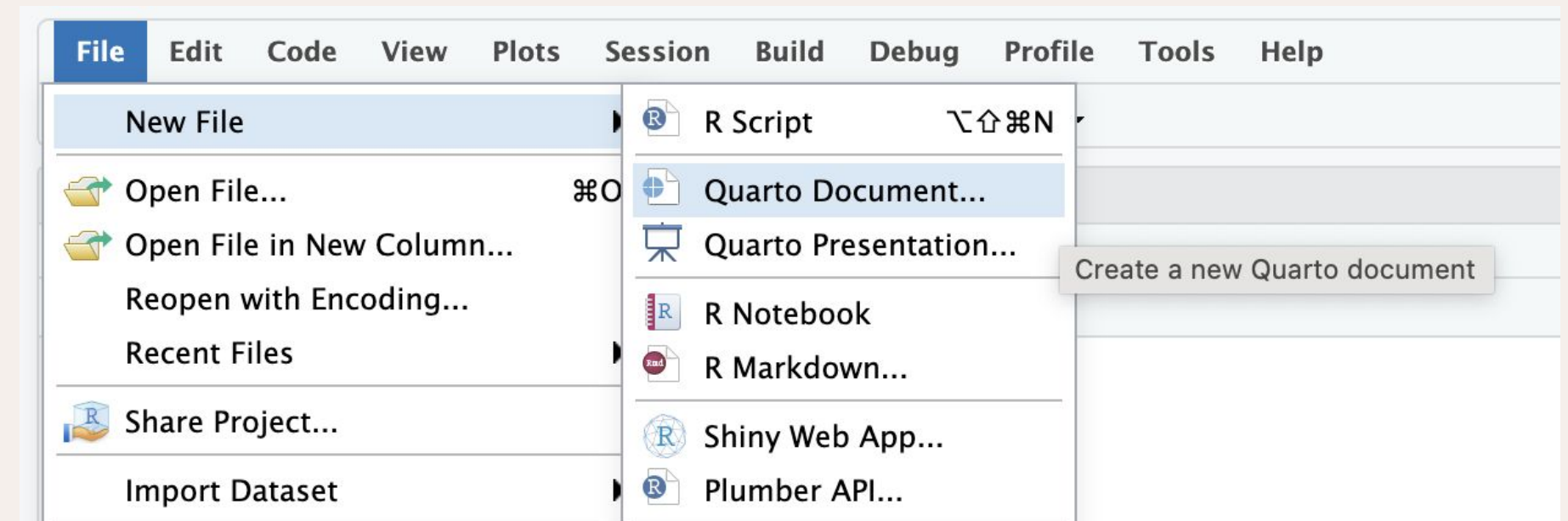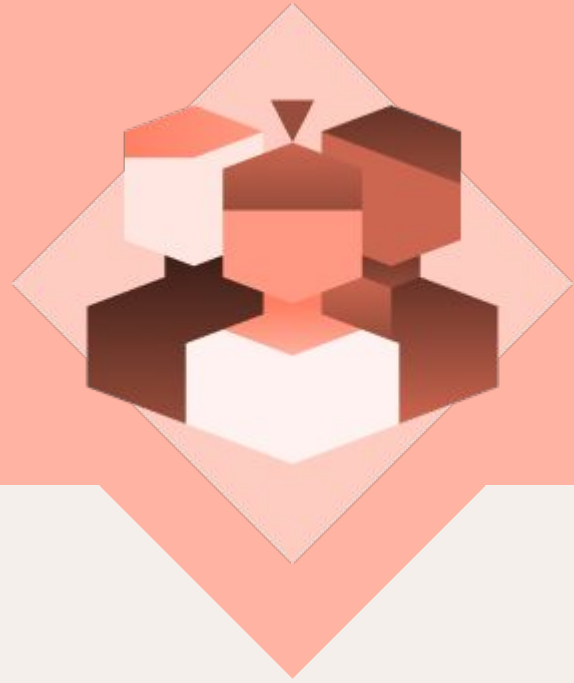
- **What else are you curious about?**

Option 2: Your own data

**Upload your data
(or work locally if you prefer)**

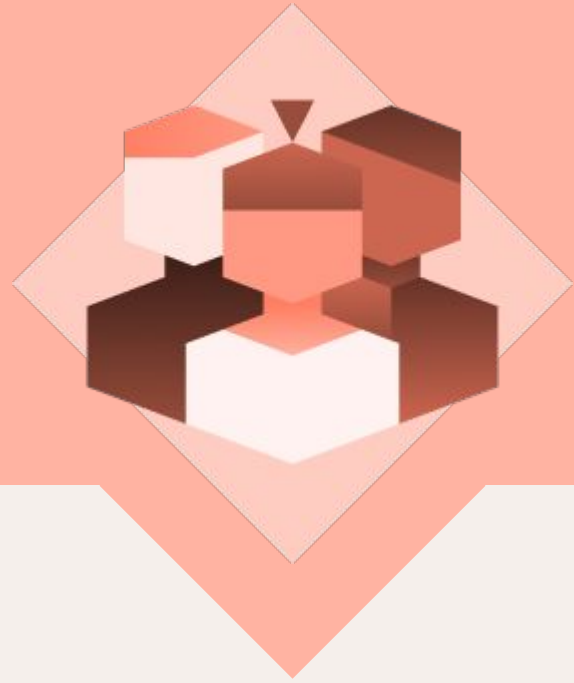**Create a new Quarto document**

Agenda

Option 1: Explore employee attrition data

Option 2: Explore your own data

⏰ Until coffee break (10:30 AM)

Agenda

Option 1: Explore employee attrition data

Option 2: Explore your own data

⏰ Until lunch (12:30 PM)