

Lecture 2: Data Frames Warm Up

The Scenario

Organizations always need some time to warm up to data. Often times, simple statistical reports are a way to build trust. Given the following data frame containing financials from organizational operations, write the appropriate expression to extract the right information.

Note that **revenue** is total revenue in millions, **rev_target** is the target revenue for a given month, **elec_bill** is the electricity bill in thousands, and **social_media** is the number of likes. All data are monthly numerical values.

##	month	quarter	revenue	rev_target	elec_bill	social_media
## 1	1	1	266	284	128	80
## 2	2	1	289	291	141	257
## 3	3	1	302	214	145	14
## 4	4	2	138	124	207	133
## 5	5	2	121	104	194	240
## 6	6	2	268	172	154	37
## 7	7	3	299	266	213	168
## 8	8	3	246	299	191	62
## 9	9	3	217	241	176	38
## 10	10	4	133	146	187	226
## 11	11	4	171	100	160	269
## 12	12	4	174	146	153	112

The Questions

Assuming the data is in data frame format, write commands to answer the following questions.

Example:

How many rows of data do you have?

```
nrow(df)
```

```
## [1] 12
```

Get into it

1. What was the total revenue for the year?
2. What was the most number of tweets?
3. How much was the total elec bill for Q2 and Q3?
4. What were the last 5 monthly electricity bill amounts and revenues?
5. In which month did we hit our lowest number of likes?
6. In which quarter did we hit our highest revenue?
7. In how many months did we hit our revenue targets?
8. In which months did we hit our target?
9. In months where we missed the target, what was the total lost revenue?
10. Provide the electric bills for the first month of each quarter.