

CMPU 100 · Programming with Data

Joining Datasets

Class 13



phones

Model	Price	Screen Size
iPhone 12	799	6.1
iPhone 12 Pro Max	1099	6.7
Samsung Galaxy S21	799	6.2
OnePlus 8	699	6.6

phones

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inventory

Handset	Units	Store
Samsung Galaxy S21	50	Berkeley
iPhone 12	40	Berkeley
iPhone 12	10	San Francisco
OnePlus 8	100	Oakland
Pixel 5	25	Oakland

phones

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If I sold all the phones in my inventory, what would my revenue be?

The method

```
table_1.join("column 1", table_2, "column 2")
```

joins table_1 and table_2 into a larger table by looking for matching values in

"column 1" of table_1 and

"column 2" of table_2

and combining the matching rows.

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No matches!

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This value wasn't matched by any in the first table, so we won't see it in the output.

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The final table is sorted by the values in the column you join by (with uppercase letters before lowercase)

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iPhone 12	799	6.1	10	San Francisco

Let's actually run it in Python so we can compute the answer we wanted: how much revenue would we get if we sold all our inventory?

