

CMPU 100 · Programming with Data

Joining Datasets

Class 13



Be sure to review the example solutions for Exam 1 and understand any problems you struggled with.

The material in this course builds – we've been learning data science and programming basics that will continue to be relevant.

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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iPhone 12	799	6.1
iPhone 12 Pro Max	1099	6.7
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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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```
phones.join("Model", inventory, "Handset")
```

phones

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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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Samsung Galaxy S21	799	6.2	50	Berkeley
iPhone 12	799	6.1	40	Berkeley
iPhone 12	799	6.1	10	San Francisco

Notebook

