

Json

Working with nested Json

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Examine the file

We are going to start by looking at people_more_data.json.

Import it into a dataframe using `pd.read_json()`

This is a nested Json-file and therefore some fields will still contain nested json data. We won't be using all data, but the idea is to produce a dataframe with these columns:

Name	Age	Street	City	Zipcode	email	phone

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Separate DataFrames

Separate the Address – column into a separate dataframe

Separate the Contacts – column into a separate dataframe

Drop all columns except index, name and age from the original dataframe

Tips:

```
df2 = df1['column']
```

```
df = df.drop(['columnA', 'columnB'])
```

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Loop Address

Use a for-each loop to loop through each row in Address:

```
for row in address:
```

get street, city and zipcode and put them in separate lists:

```
street[] city[] zipcode[]
```

Create a dictionary with 'street', 'city' and 'zipcode' as keys, and the newly created lists as values:

```
dict_address = {'street' : street, 'city': city, 'zipcode' : zipcode}
```

Transform the dictionary into a Dataframe

Merge the newly created dataframe with the original one

Tips:

- `pd.merge()`
- You can access a column for instance 'street' in each row by using `row['street']` in the loop

Print the final results

If all went well, you should have something like this:

	name	age	street	city	zipcode	email	phone
0	Alice	30	123 Main St	New York	10001	alice@example.com	123-456-7890
1	Bob	25	456 Elm St	Los Angeles	90001	bob@example.com	987-654-3210
2	Charlie	35	789 Oak St	Chicago	60601	charlie@example.com	555-123-4567
3	David	28	567 Pine St	San Francisco	94101	david@example.com	415-555-1234
4	Eva	32	890 Oakwood Dr	Miami	33101	eva@example.com	786-555-5678
5	Fiona	27	345 Maple Ln	Seattle	98101	fiona@example.com	206-555-7890
6	George	45	678 Elmwood Ave	Boston	02101	george@example.com	617-555-1234
7	Hannah	29	456 Oak Lane	Denver	80201	hannah@example.com	303-555-5678
8	Isaac	38	789 Cedar Rd	Austin	73301	isaac@example.com	512-555-7890
9	Alex	30	12 Main St	New York	10022	alex@example.com	123-456-7890
10	Ella	28	24 Oak Ave	Los Angeles	90001	ella@example.com	987-654-3210
11	Liam	32	36 Maple Ln	Chicago	60601	liam@example.com	555-123-4567
12	Mia	27	48 Elm Rd	San Francisco	94101	mia@example.com	123-789-4560
13	Noah	29	60 Pine St	Miami	33101	noah@example.com	987-123-7890
14	Olivia	31	72 Cedar Ave	Boston	02101	olivia@example.com	555-789-1234
15	Lucas	26	84 Oak Rd	Seattle	98101	lucas@example.com	123-456-7890
16	Ava	33	96 Maple Ave	Austin	73301	ava@example.com	555-987-6543
17	Sophia	29	15 Elm Rd	Chicago	60601	sophia@example.com	555-123-7890
18	Jackson	31	21 Pine St	Los Angeles	90001	jackson@example.com	123-789-4560
19	Sophia	27	18 Cedar Ave	San Francisco	94101	sophia@example.com	555-987-6543
20	Liam	30	33 Oak Ln	Miami	33101	liam@example.com	123-456-7890
21	Olivia	32	27 Main Ave	Boston	02101	olivia@example.com	987-654-3210
22	Noah	28	42 Cedar Rd	Austin	73301	noah@example.com	555-123-4567
23	Mia	26	39 Elm St	Denver	80201	mia@example.com	123-789-4560

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