Lunch menu – Jinja practice activity

Rewst Foundations

This activity will help you practice using Jinja syntax, filters, and list comprehension in the Jinja Live Editor. Open the Jinja Live Editor by navigating to the Rewst platform, clicking the “Tools” menu, then “Jinja Live Editor”.

Lunch Menu Data Set

Paste the following into the “Context” section of the Jinja Live Editor to use for all exercises:

```
{
  "week": "April 1–5, 2025",
  "days": [
    {
      "day": "Monday",
      "lunch": {
        "main": "BBQ chicken nuggets w/ egg-cellent sauce",
        "sides": ["Fresh Fruit", "Mashed Potatoes"],
        "dessert": "Chocolate Pudding"
      }
    },
    {
      "day": "Tuesday",
      "lunch": {
        "main": "Spicy chicken taco",
        "sides": ["Refried Beans", "Spanish Rice"],
        "dessert": "Churros"
```

```
      }
    },
    {
      "day": "Wednesday",
      "lunch": {
        "main": "French toast sticks",
        "sides": ["Sausage", "Yogurt Parfait"],
        "dessert": "Fruit Slush"
      }
    },
    {
      "day": "Thursday",
      "lunch": {
        "main": "Pasta with Alfredo",
        "sides": ["Steamed Broccoli", "Garlic Bread"],
        "dessert": "Vanilla Ice Cream"
      }
    },
    {
      "day": "Friday",
      "lunch": {
        "main": "Cheeseburger",
        "sides": ["Tater Tots", "Pickle Spears"],
        "dessert": "Brownie"
      }
    }
  ]
}
```

Practice Prompts

Use the Jinja editor to explore the following challenges. For each challenge, type the expression, e.g., {{- CTX.week -}}, into the “Editor” section.

Render the expression by clicking the “Render” button, or by using keyboard shortcuts:

- PC: Control + Enter
- Mac: Command + Return

After you complete each exercise, check the Answer Key at the bottom of this guide to compare your result to the expected output. Then, move on to the next exercise and repeat the process.

1. Render the week value.

Access the value for week from the CTX variable.

{{- CTX.week -}}

2. How many days are represented in this week?

Use a Jinja filter to count how many entries are in CTX.days.

{{- CTX.days | count -}}

3. Show the lunch main dish for Wednesday.

Hint: Access a specific item from a list and a nested value.

For Loop

```
{{- CTX.days[2].lunch.main -}}
```

4. Loop through the week and display only the day names.

```
 {%- for today in CTX.days -%}
   {{ today.day }}
{% endfor %}
```

Expected output:

```
Monday
Tuesday
Wednesday
...
```

5. Loop through each day and create a sentence that includes the day and the main lunch item.

```
{%- for today in CTX.days -%}
   On {{ today.day }}, the main dish is {{ today.lunch.main }}.
{% endfor %}
 {{
   [
      "On " ~ today.day ~ ", the main dish is " ~ today.lunch.main ~ "."
      for today in CTX.days
   ]
}}
```

Format suggestion:

On Monday, the main dish is BBQ chicken nuggets w/ egg-cellent sauce.

6. Join all of Thursday's side items into one line.

Hint: Use the join filter.

7. Bonus: Print each day's lunch in one sentence that includes the day, main, sides, and dessert.

Format suggestion:

On Friday, students will have Cheeseburger with Tater Tots and Pickle Spears. Dessert is Brownie.

Advanced Practice: List Comprehension

Use these challenges to explore list comprehension and data extraction from nested structures.

Tips

- Use CTX.days to access the full list of days
- Filters like join(', ') and length help format and count items
- You can loop over days, or nest loops for sub-values like sides
- Start with for loops, then explore list comprehension once you're comfortable

8. List all desserts for the week using a for loop.

Loop through CTX.days and display each dessert.

9. List all desserts using list comprehension.

Format the output as a simple list.

10. Count how many total lunch side items are served this week.

You may need a nested list comprehension to gather all side items, then use length.

Why this matters

By practicing with this lunch menu data, you'll gain real experience with:

- Navigating and using structured data in context
- Writing Jinja expressions you'll use in real Rewst workflows
- Preparing clean output from nested data using filters and loops

Answer Key

1. Render the week value

{{- CTX.week -}}

Expected output:
April 1–5, 2025

2. How many days are represented in this week?

{{- CTX.days | count -}}

Expected output:
5

3. Show the lunch main dish for Wednesday

{{- CTX.days[2].lunch.main -}}

Expected output:

French toast sticks

4. Loop through the week and display only the day names

```
{%- for today in CTX.days -%}
  {{ today.day }}
{% endfor %}
```

Expected output:

Monday
Tuesday
Wednesday
Thursday
Friday

5. Loop through each day and create a sentence that includes the day and the main lunch item

```
{%- for today in CTX.days -%}
  On {{ today.day }}, the main dish is {{ today.lunch.main }}.
{% endfor %}
```

OR using list comprehension:

```
{{
  [
    "On " ~ today.day ~ ", the main dish is " ~ today.lunch.main ~ "."
    for today in CTX.days
  ]
}}
```

Expected output:

On Monday, the main dish is BBQ chicken nuggets w/ egg-cellent sauce.
On Tuesday, the main dish is Spicy chicken taco.
On Wednesday, the main dish is French toast sticks.
On Thursday, the main dish is Pasta with Alfredo.
On Friday, the main dish is Cheeseburger.

6. Join all of Thursday's side items into one line

```
{{- CTX.days[3].lunch.sides | join(', ') -}}
```

Expected output:
Steamed Broccoli, Garlic Bread

7. Bonus: Print each day's lunch in one sentence (day, main, sides, dessert)

```
{%- for today in CTX.days -%}
  On {{ today.day }}, students will have {{ today.lunch.main }} with {{ today.lunch.sides | join(' and ') }}. Dessert is {{ today.lunch.dessert }}.
{% endfor %}
```

Expected output:

On Monday, students will have BBQ chicken nuggets w/ egg-cellent sauce with Fresh Fruit and Mashed Potatoes. Dessert is Chocolate Pudding.
On Tuesday, students will have Spicy chicken taco with Refried Beans and Spanish Rice. Dessert is Churros.
On Wednesday, students will have French toast sticks with Sausage and Yogurt Parfait. Dessert is Fruit Slush.
On Thursday, students will have Pasta with Alfredo with Steamed Broccoli and Garlic Bread. Dessert is Vanilla Ice Cream.
On Friday, students will have Cheeseburger with Tater Tots and Pickle Spears. Dessert is Brownie.

Advanced Practice

8. List all desserts for the week using a for loop

```
{%- for today in CTX.days -%}
  {{ today.lunch.dessert }}
{% endfor %}
```

Expected output:

Chocolate Pudding
Churros
Fruit Slush

Vanilla Ice Cream
Brownie

9. List all desserts using list comprehension

{{- [today.lunch.dessert for today in CTX.days] -}}

Expected output:
["Chocolate Pudding", "Churros", "Fruit Slush", "Vanilla Ice Cream", "Brownie"]

10. Count how many total lunch side items are served this week

{{- [side for today in CTX.days for side in today.lunch.sides] | length -}}

Expected output:
10