RELATIONAL SCHEMA

Menus(id, name, description, start_date, end_date)

Example:

```
<menu>
    <id>1</id>
    <name>Weeknight Specials</name>
    <description>A selection of quick and delicious meals for busy weekdays.</descrip
    <start_date>2024-03-01</start_date>
    <end_date>2024-03-07</end_date>
</menu>
```

```
<menu>
    <id>4</id>
    <menu>
    <id>4</id>
    <menu>
    <menu</menu>
    <menu</menu>
    <menu</menu>
    <menu</menu>
    <menu</menu>
    <menu</menu>
    <menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</menu</
```

dietaries(id,name,description)[Vegetarian, Gluten-free, High-protein]

```
<dietary>
    <id>1</id>
</dr>

<id>1

<dio</pre>
<dietary>

<dietary>

<id>2

<dietary>

<id>2

<dietary-
</pre>
<id>2

<dietary-
</pre>
<id>2

<dietary-
</pre>
<id>

<p
```

Categories(id,name,description) [Dairy, Meat, Vegetables, Spices]

budgetcategories(id,name,description)["Budget-Friendly", "Economical", "Low-Cost"]

Recipes(id,name,preparation_time,cooking_time, description, difficulty_level,serving_size,cooking_instructions,#budgetcategory_id,#category_id)

macronutrients(id, name, description)[carbohydrates,proteins,fats]

macroelements(<u>id</u>, name, description)[le calcium, le chlore, le magnésium, le phosphore, le potassium et le sodium]

```
<macroelement>
    <id>1</id>
    <name>Le calcium</name>
    <description>Essential for bone health and nerve function.</description>
</macroelement>

<macroelement>
    <id>2</id>
    <name>Le chlore</name>
    <description>Involved in fluid balance and digestion.</description>
</macroelement></macroelement>
```

oligoelements(<u>id</u>, name, description)[le fer, le zinc, le cuivre, le manganèse, l'iode, le sélénium, le chrome, le molybdène, le fluor, le cobalt, le silicium, le vanadium, le nickel, le bore et l'arsenic]

```
<oligoelement>
    <id>>1</id>
</or>
<name>Le fer</name>
    <description>Important for oxygen transport and energy production.</description>
</oligoelement>
<oligoelement>
    <id>>2</id>
<onumber <pre><id>>2</id>
<onumber <pre><id>>2</id>
<onumber <pre><id>>2</id>
<oligoelement>

<
```

Vitamins(id, name, description)[Vitamine A, Vitamin C, etc]

Ingredients(id, name, measurement_unit, cost,calories, #macronutrient_id, #recipe_id)

Recipe_dietaries(#recipe_id, #dietary_id)

Ingredient_macroelements(#ingredient_id, #macroelement_id)

Ingredient_vitamins(#ingredient_id, #vitamin_id)

Ingredient_macronutrients(#ingredient_id, #macronutrient_id, value)

Ingredient_oligoelements(#ingredient_id,#oligoelement_id)

Recepe_ingredients(<u>#reciped_id</u>, <u>#ingredient_id</u>, quantity)

Customers(<u>id</u>, firstname, lastname, email, phone, address)

```
<customer>
    <id>1</id>
    <firstname>John</firstname>
    <lastname>Doe</lastname>
    <email>john.doe@example.com</email>
    <phone>123-456-7890</phone>
    <address>123 Main Street, Cityville</address>
    </customer>
```

Orders(<u>id</u>,#customer_id,order_date,delivery_date,total_amount,"delevery_person_id, status('pending','accepted','cooking','on delevery','completed','cancelled')

Order_Items(#order_id,#recipe_id,quantity,price)

Reviews(id, #customer_id, #recipe_id, rating, comment, review_date)

```
<review>
 <id>1</id>
 <customer_id>1</customer_id>
 <recipe_id>3</recipe_id>
 <rating>4.5</rating>
 <comment>A delicious recipe! I loved it.</comment>
 <review_date>2024-03-05</review_date>
</review>
<review>
 <id>2</id>
 <customer_id>2</customer_id>
 <recipe_id>1</recipe_id>
 <rating>5.0</rating>
 <comment>Amazing taste and easy to prepare.</comment>
 <review_date>2024-03-06</review_date>
</review>
```

Delivery_persons(<u>id</u>, name, contact, vehicule_type('car','bike','scooter'), availability, vehicule_number, current_location)

```
<delivery_person>
    <id>101</id>
    <name>John Driver</name>
    <contact>987-654-3210</contact>
    <vehicle_type>car</vehicle_type>
    <availability>true</availability>
    <vehicle_number>ABC123</vehicle_number>
    <current_location>Cityville</current_location>
</delivery_person>
```

```
<Ingredient>
     <name>Example Food</name>
     <nutrients>
        <macronutrients>
             <macronutrient>
               <id>1</name>
                <name>carbohydrates</name>
                <description></description>
            </macronutrient>
            <macronutrient>
                <id>2</name>
                <name>proteins</name>
                <description></description>
            </macronutrient>
            <macronutrient>
               <id>3</name>
                <name>fats</name>
                <description></description>
            </macronutrient>
        </macronutrients>
        <micronutrients>
            <minerals>
                <macrominerals>
                    <!-- List of macrominerals -->
                </macrominerals>
                <microminerals>
                  <zinc>...</zinc>
                    <copper>...</copper>
                    <!-- Other trace minerals (oligo-elements) -->
                </microminerals>
             </minerals>
             <!-- Other micronutrients such as vitamins -->
         </micronutrients>
     </nutrients>
</Ingredient>
```

- Nutrients
- Macro-nutrients
- Carbohydrates
- Proteins
- Fats
- Micro-nutrients
- Macroelements (Minerals as an umbrella term)

- Calcium
- Chlorine
- Magnesium
- Phosphorus
- Potassium
- Sodium
- Oligo-elements (Minerals as an umbrella term)
- Iron
- Zinc
- Copper
- Manganese
- lodine
- Selenium
- Chromium
- Molybdenum
- Fluorine
- Cobalt
- Silicon
- Vanadium
- Nickel
- Boron
- Arsenic
- Vitamins
- Vitamin A
- Vitamin C
- Vitamin D
- Vitamin E
- Vitamin K

WORKLOAD DISTRIBUTION WITHIN THE GROUP

	Contributors					
Tasks	Pascal	А	В	С		
Database Modeling	>					
and Relational						
Schema						
Validation of the	\					
database schema	·	·	·			
Write an XML	\					
Schema that				·		
represents your						
modeling						
Populating the XML	\	\	\	\		
Database						
Visualization of a	\	\	\	\		
part of the database						
with XSL						
The 6 th visualization	\					
part						
The 7 th visualization	\					
part in JSON						
Write a report		\	\	\		

Tasks	Responsible	Accountable	Consulted	Informed