



# Ferramentas para Modelo ER

Profa. Maria Camila Nardini Barioni

[camila.barioni@ufu.br](mailto:camila.barioni@ufu.br)

Bloco B - sala 1B137

1º semestre de 2024

# Roteiro

- ◆ Apresentação do tema do projeto
- ◆ Explicação da atividade

# Tema do projeto

## ◆ Projeto: HIPERMERCADO

◆ 24/08

- ◆ Início do desenvolvimento do projeto (Definição de requisitos adicionais e Modelo Entidade Relacionamento)
- ◆ Entrega dos nomes dos integrantes do grupo do projeto e da descrição dos requisitos adicionais

◆ 14/09

- ◆ Continuação do desenvolvimento do projeto (Mapeamento para o modelo relacional)

◆ 21/09

- ◆ Continuação do desenvolvimento do projeto (Álgebra relacional)
- ◆ Entrega da descrição das consultas

◆ 28/09

- ◆ Continuação do desenvolvimento do projeto (Consultas SQL)
- ◆ Entrega da descrição das consultas

◆ 19/10

- ◆ Continuação do desenvolvimento do projeto (SP e gatilhos)
- ◆ Entrega da descrição do SP e do gatilho

◆ 25/10

- ◆ Finalização do projeto
- ◆ Entrega do relatório final completo e scripts finais

# Orientações

- ◆ Você pode fazer o diagrama a mão ou utilizar os softwares DIA ou ERD para fazer o diagrama do Modelo Entidade Relacionamento do exercício proposto (disponibilizado na tarefa no Teams)
- ◆ Se fizer a mão, submeta uma foto da sua resolução
- ◆ Se fizer usando um dos softwares, exporte o diagrama para .png para submeter a sua resolução
- ◆ **Data da entrega: 23/08 até o final da aula**

# DIA



<http://dia-installer.de/>

<a href="#">Home</a>	<a href="#">News</a>	<a href="#">Screenshots</a>	<a href="#">Examples</a>	<a href="#">Download</a>	<a href="#">Documentation</a>
<a href="#">FAQ</a>	<a href="#">Bugzilla</a>	<a href="#">Development</a>	<a href="#">Python</a>	<a href="#">Links</a>	<a href="#">Contact</a>

Welcome to Dia's new homepage. Dia is a GTK+ based diagram creation program for GNU/Linux, MacOS X, Unix, and Windows, and is released under the GPL license.

News! 2011-Dec-18: Version 0.97.2 has been released. Visit the [Download](#) page to get your copy! (Download shortcuts: [Windows](#), [Mac OS X](#))

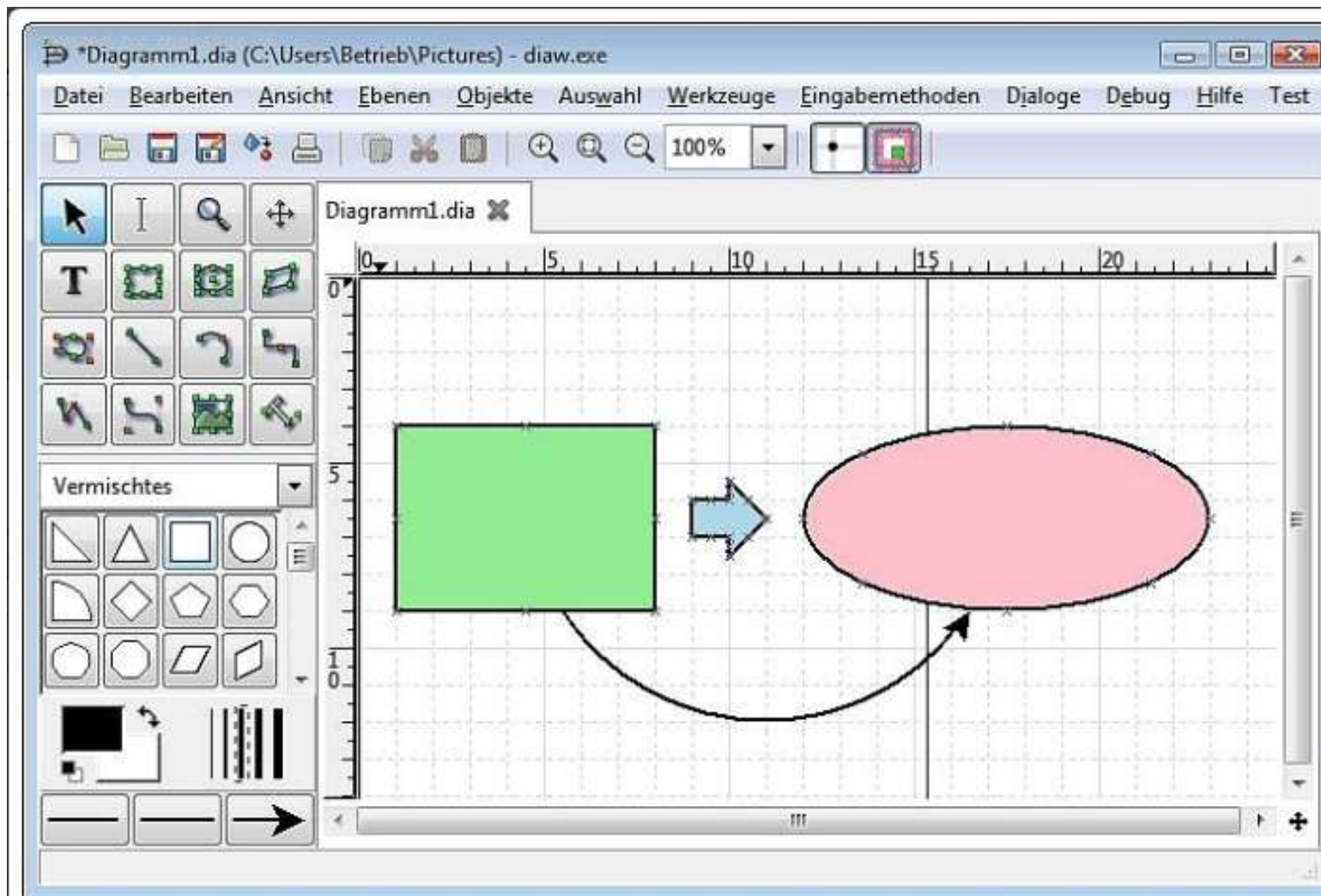
Dia is roughly inspired by the commercial Windows program 'Visio,' though more geared towards informal diagrams for casual use. It can be used to draw many different kinds of diagrams. It currently has special objects to help draw entity relationship diagrams, UML diagrams, flowcharts, network diagrams, and many other diagrams. It is also possible to add support for new shapes by writing simple XML files, using a subset of SVG to draw the shape.

It can load and save diagrams to a custom XML format (gzipped by default, to save space), can export diagrams to a number of formats, including EPS, SVG, XFIG, WMF and PNG, and can print diagrams (including ones that span multiple pages).

Download Dia and try using it; tell us what you think of it (visit the [Contact](#) page), including to report bugs if you find them. You can even read the

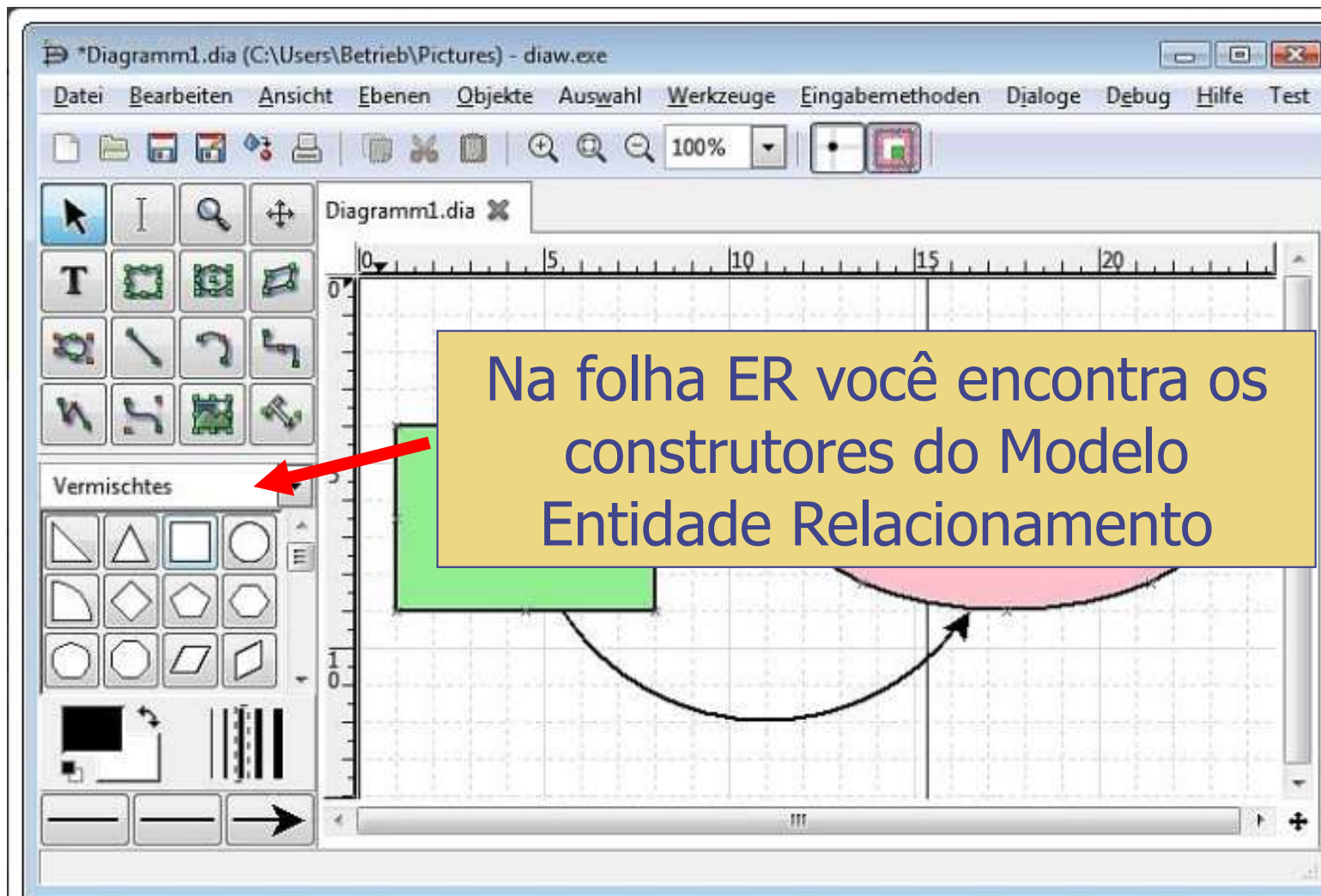
# DIA

◆ <http://dia-installer.de/>



# DIA

◆ <http://dia-installer.de/>

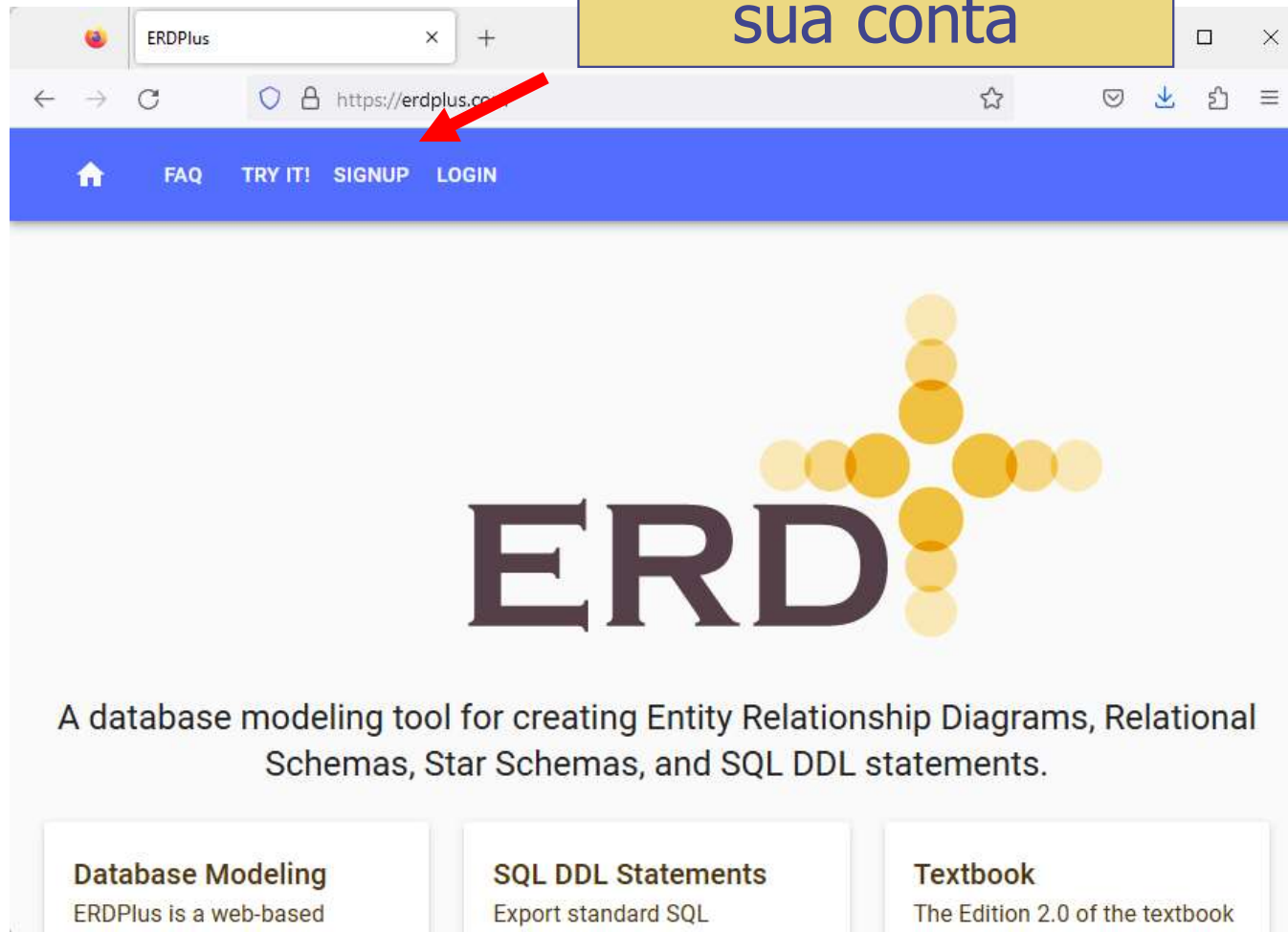




# ERD

◆ <https://erdplus.com/>

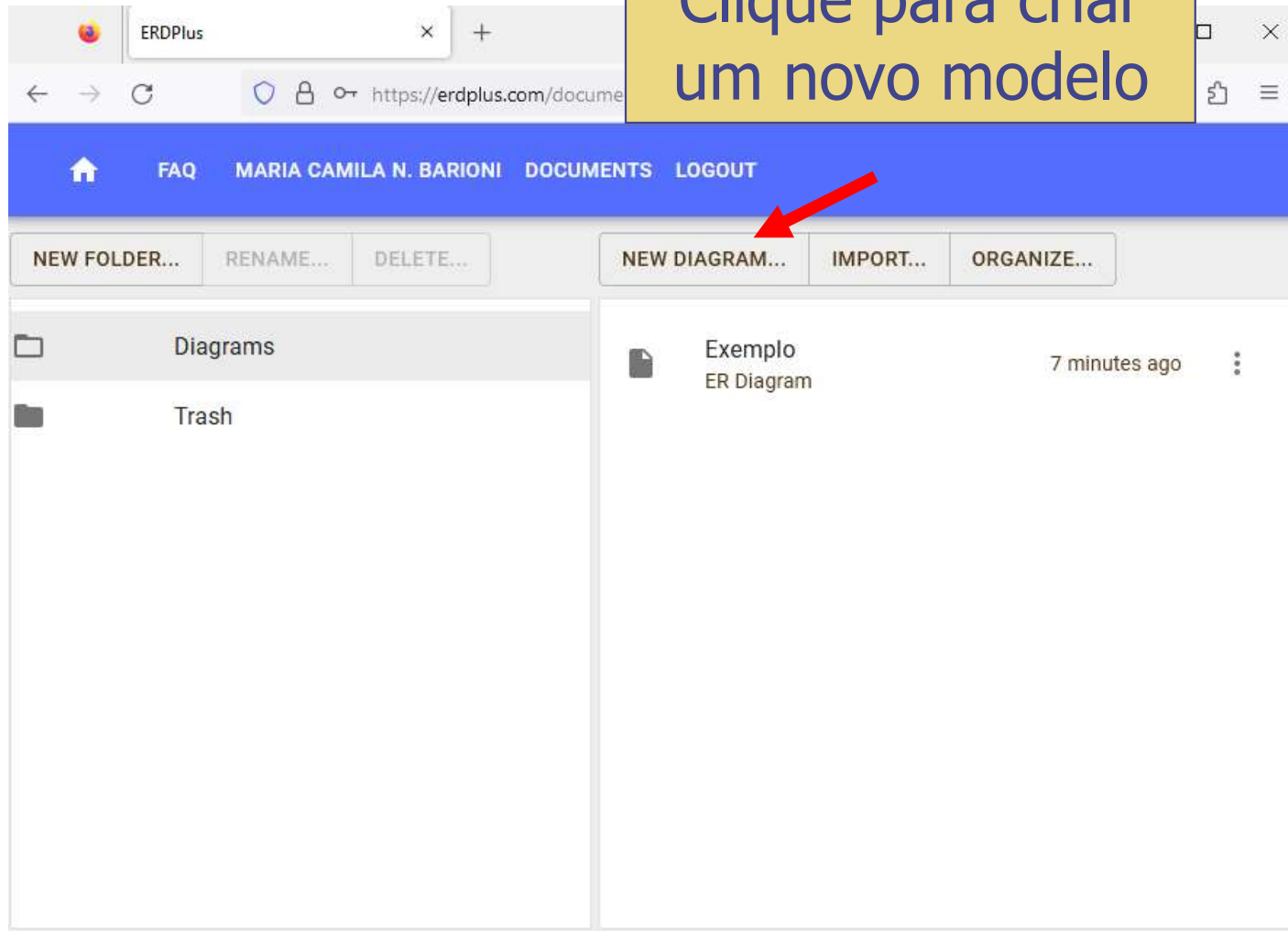
Clique para criar a sua conta





# ERD

 <https://erdplus.com/>

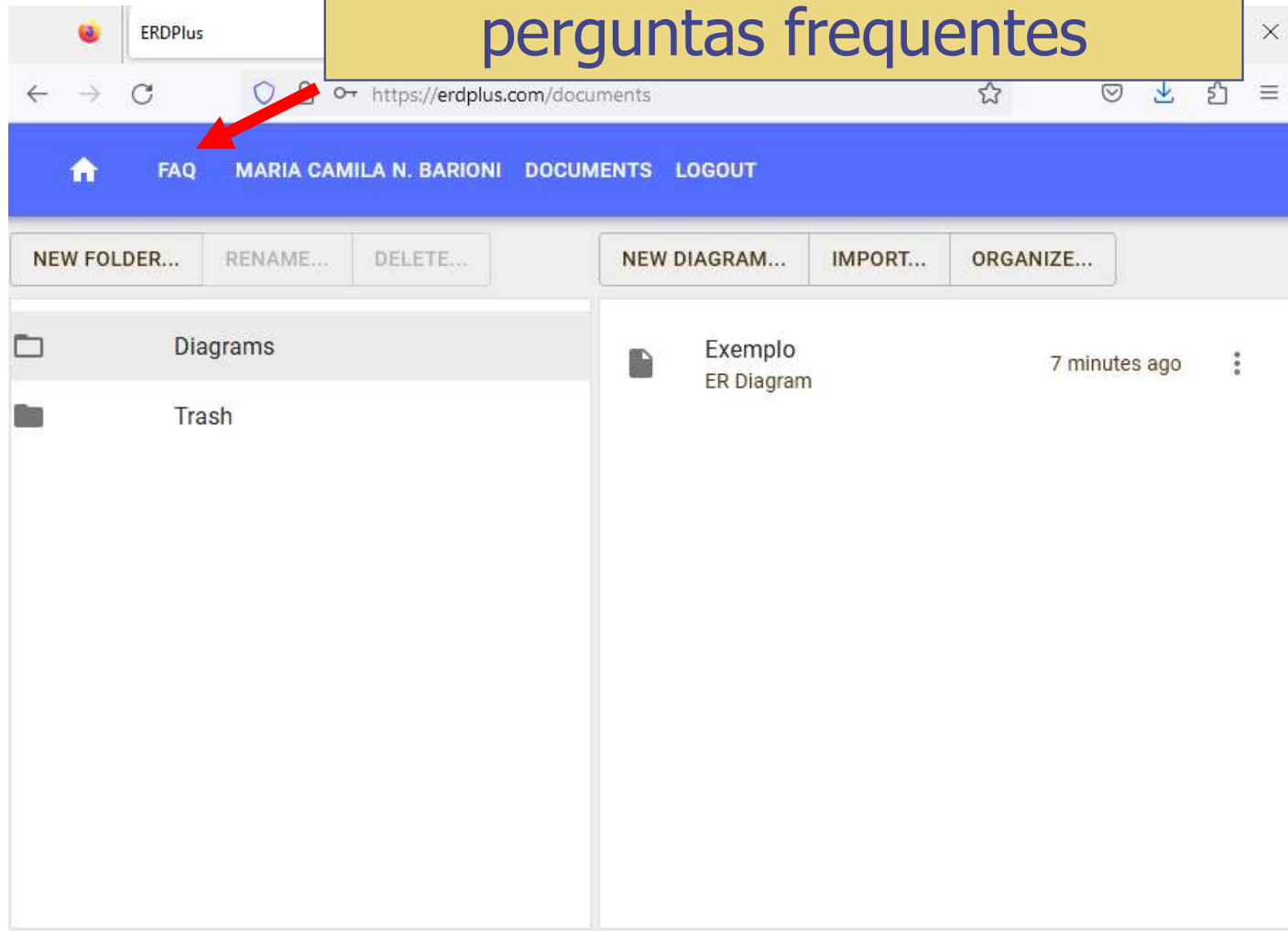


# ERD



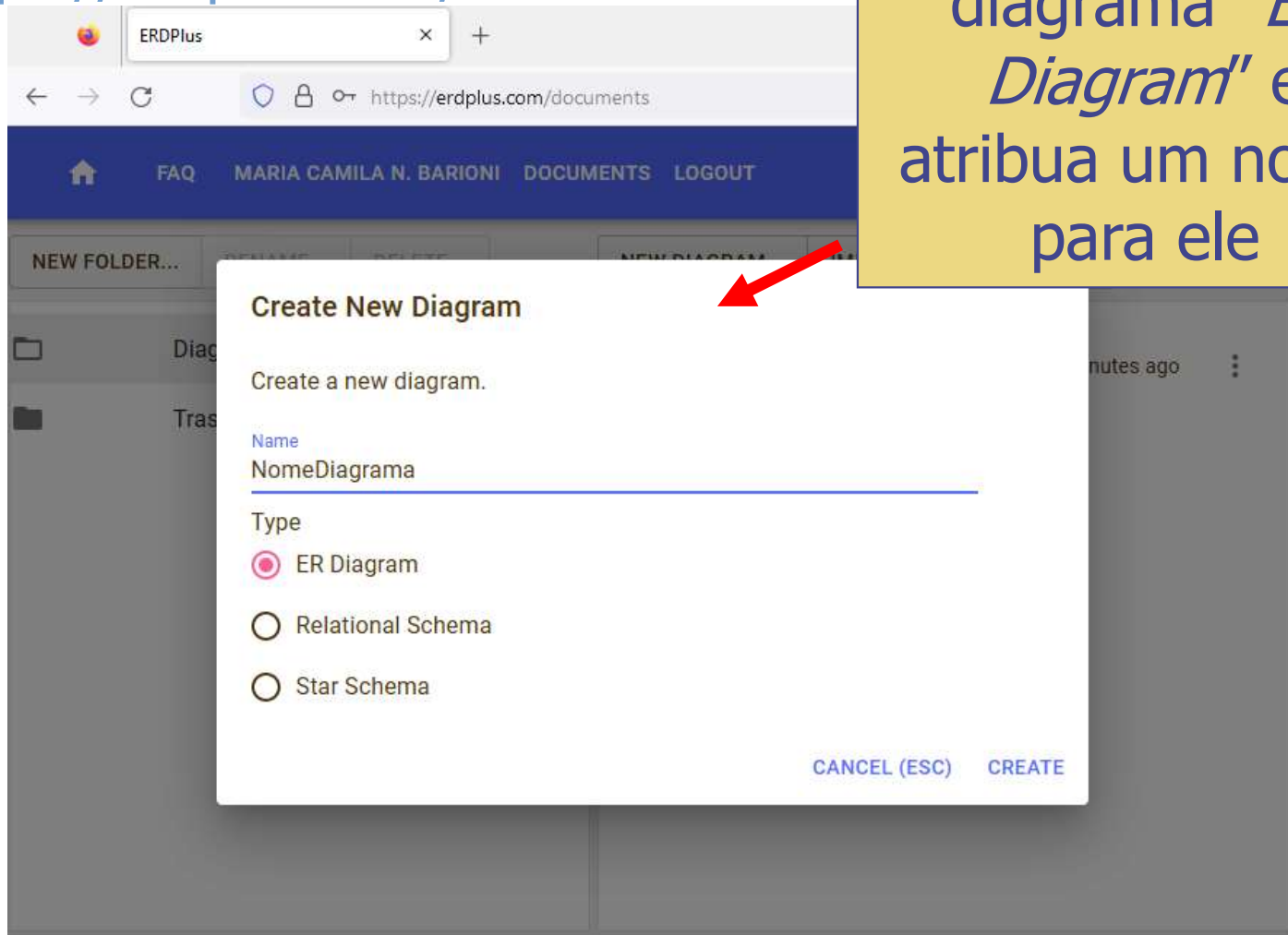
<https://erdplus.com>

Clique para obter exemplos de perguntas frequentes



# ERD

 <https://erdplus.com/>

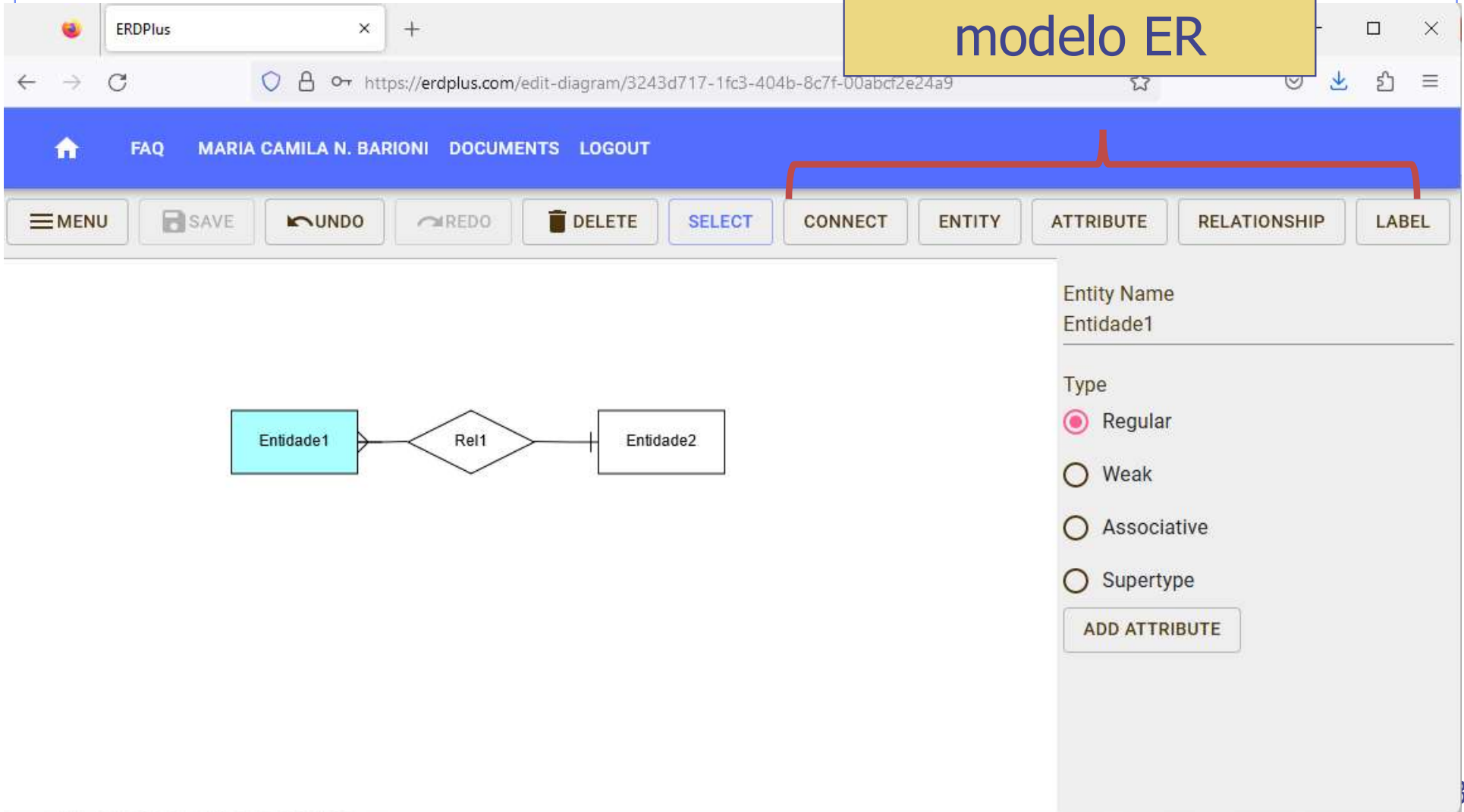


Escolha o tipo do diagrama "*ER Diagram*" e atribua um nome para ele

# ERD

 <https://erdplus.com/>

Construtores do  
modelo ER



The screenshot displays the ERDPlus web application interface. At the top, a blue navigation bar contains links for Home, FAQ, the user name MARIA CAMILA N. BARIONI, DOCUMENTS, and LOGOUT. Below this is a toolbar with buttons for MENU, SAVE, UNDO, REDO, DELETE, SELECT, CONNECT, ENTITY, ATTRIBUTE, RELATIONSHIP, and LABEL. A red bracket highlights the CONNECT, ENTITY, ATTRIBUTE, RELATIONSHIP, and LABEL buttons. The main workspace shows an ER diagram with two entities, Entidade1 and Entidade2, connected by a relationship named Rel1. Entidade1 is highlighted in light blue. On the right, a configuration panel for the selected entity (Entidade1) is visible, showing options for Type: Regular (selected), Weak, Associative, and Supertype, along with an ADD ATTRIBUTE button.

Entity Name  
Entidade1

Type

- ☒ Regular
- ☐ Weak
- ☐ Associative
- ☐ Supertype

ADD ATTRIBUTE

# ERD



<https://erdplus.com/>

## Propriedades da Entidade1

The screenshot displays the ERDPlus web application interface. At the top, there is a navigation bar with links for Home, FAQ, Maria Camila N. Barioni, Documents, and Logout. Below this is a toolbar with buttons for Menu, Save, Undo, Redo, Delete, Select, Connect, Entity, Attribute, Relationship, and Label. The main workspace shows an ER diagram with two entities, 'Entidade1' and 'Entidade2', connected by a relationship 'Rel1'. 'Entidade1' is highlighted in cyan. On the right side, the 'Properties' panel for 'Entidade1' is open, showing the following details:

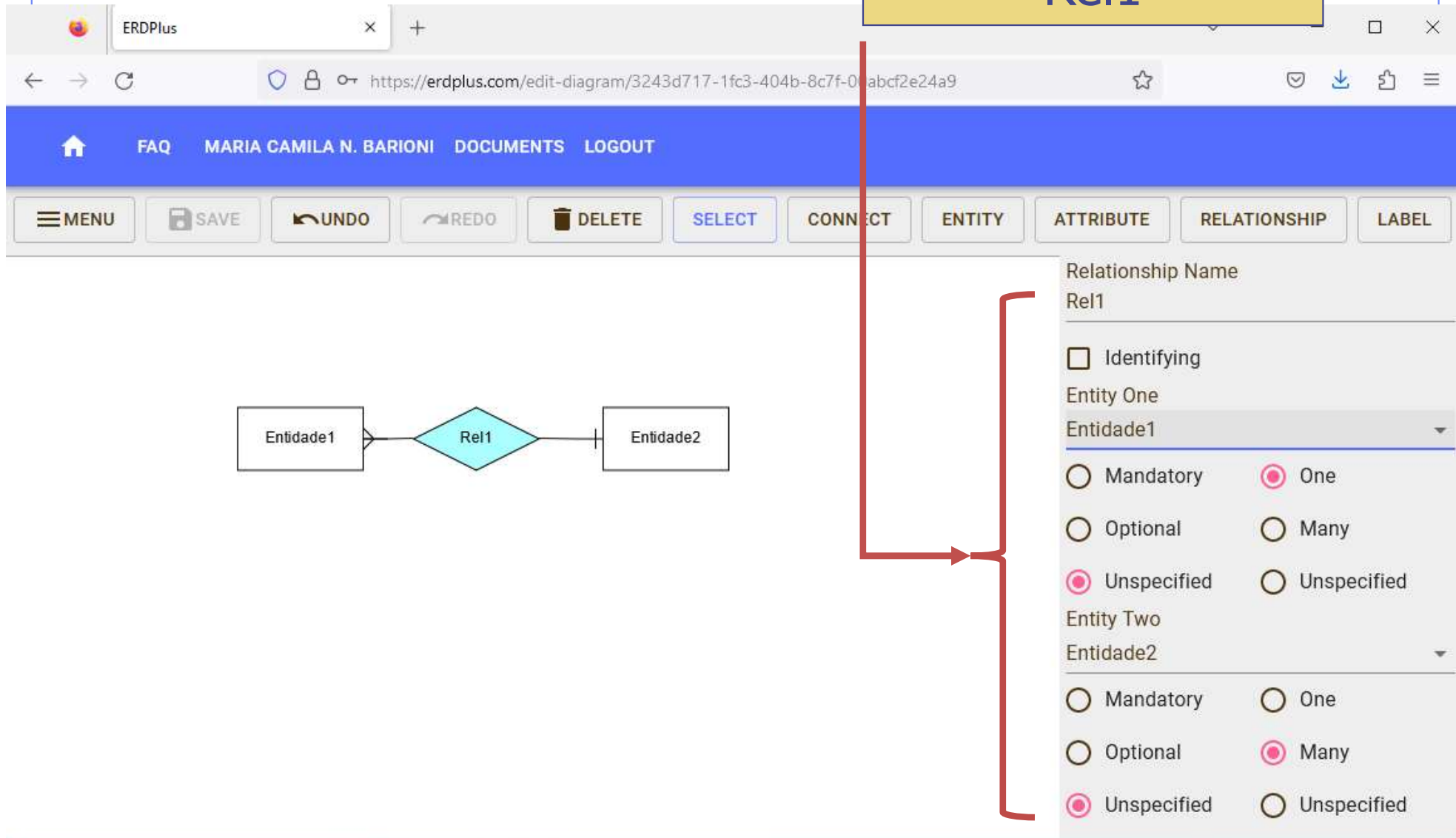
- Entity Name: Entidade1
- Type:
  - ☒ Regular
  - ☐ Weak
  - ☐ Associative
  - ☐ Supertype
- ADD ATTRIBUTE button

A red arrow points from the 'Entity' button in the toolbar to the 'Properties' panel.

# ERD

 <https://erdplus.com/>

Propriedades do  
Rel1



The screenshot displays the ERDPlus web application interface. At the top, there is a navigation bar with links for Home, FAQ, a user profile (MARIA CAMILA N. BARIONI), Documents, and Logout. Below this is a toolbar with buttons for Menu, Save, Undo, Redo, Delete, Select, Connect, Entity, Attribute, Relationship, and Label. The main workspace shows an ER diagram with two entities, 'Entidade1' and 'Entidade2', connected by a relationship named 'Rel1'. A red arrow points from the 'Rel1' relationship in the diagram to the 'Relationship Name' panel on the right. This panel shows the relationship name 'Rel1' and allows configuration for two entities: 'Entity One' (labeled 'Entidade1') and 'Entity Two' (labeled 'Entidade2'). For each entity, there are radio buttons for 'Mandatory', 'Optional', and 'Unspecified' cardinalities, and radio buttons for 'One' and 'Many' cardinalities. In the current configuration, 'Unspecified' is selected for both entities, and 'One' is selected for 'Entity One' and 'Many' is selected for 'Entity Two'.

Relationship Name  
Rel1

☐ Identifying

Entity One  
Entidade1

☐ Mandatory ☒ One  
☐ Optional ☐ Many  
☒ Unspecified ☐ Unspecified

Entity Two  
Entidade2

☐ Mandatory ☐ One  
☐ Optional ☒ Many  
☒ Unspecified ☐ Unspecified

# ERD

- ◆ <https://erdplus.com/>

- ◆ Materiais de apoio com exemplos de uso da ferramenta

- ◆ <https://www.youtube.com/watch?v=A5-yy51eNGY>

- ◆ [https://www.fer.unizg.hr/\\_download/repository/ERDplus\\_-\\_instructions\[1\].pdf](https://www.fer.unizg.hr/_download/repository/ERDplus_-_instructions[1].pdf) (páginas 07 até 12)