ERDplus quickguide

Business Intelligence & Application 2023

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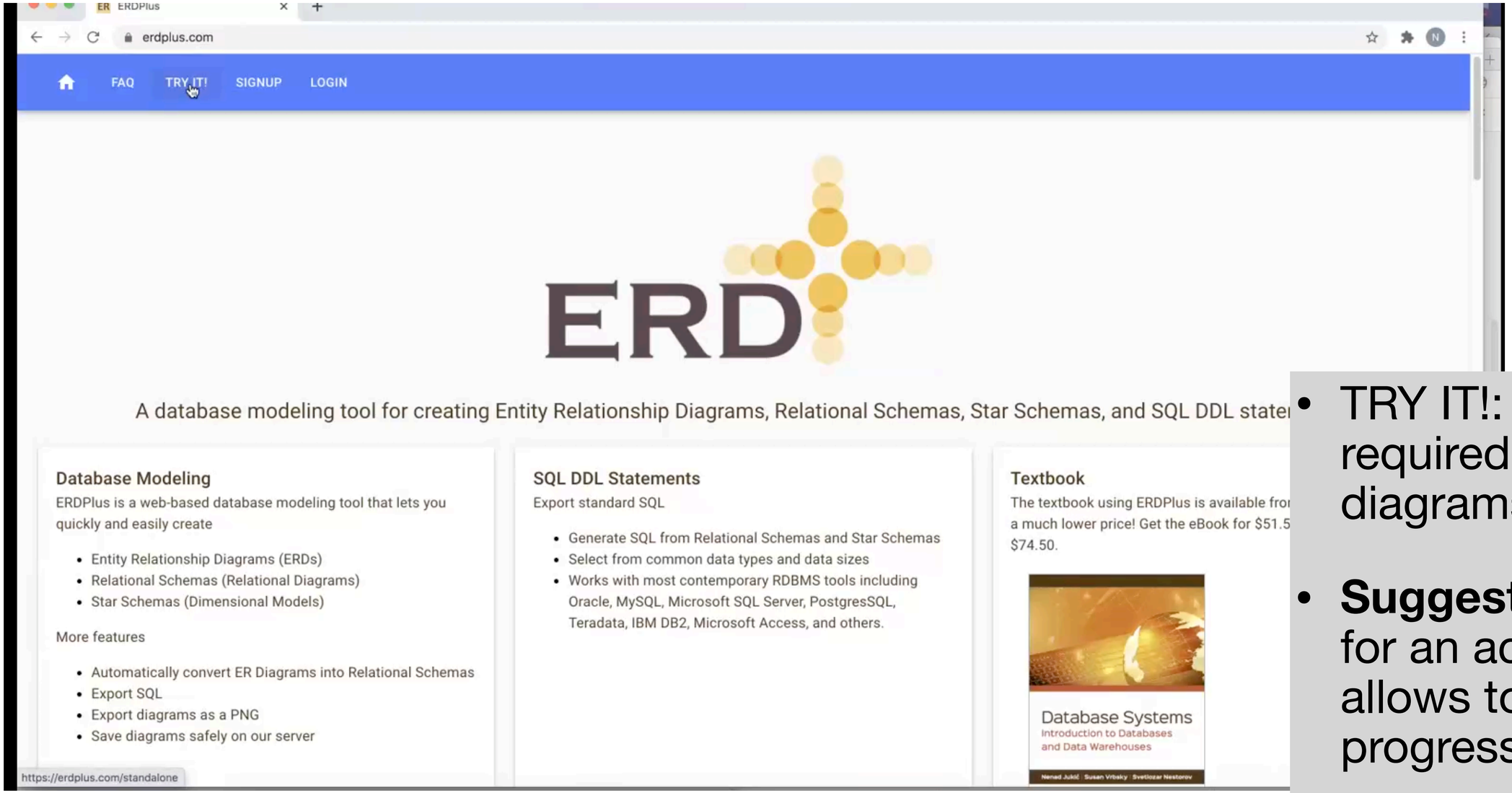
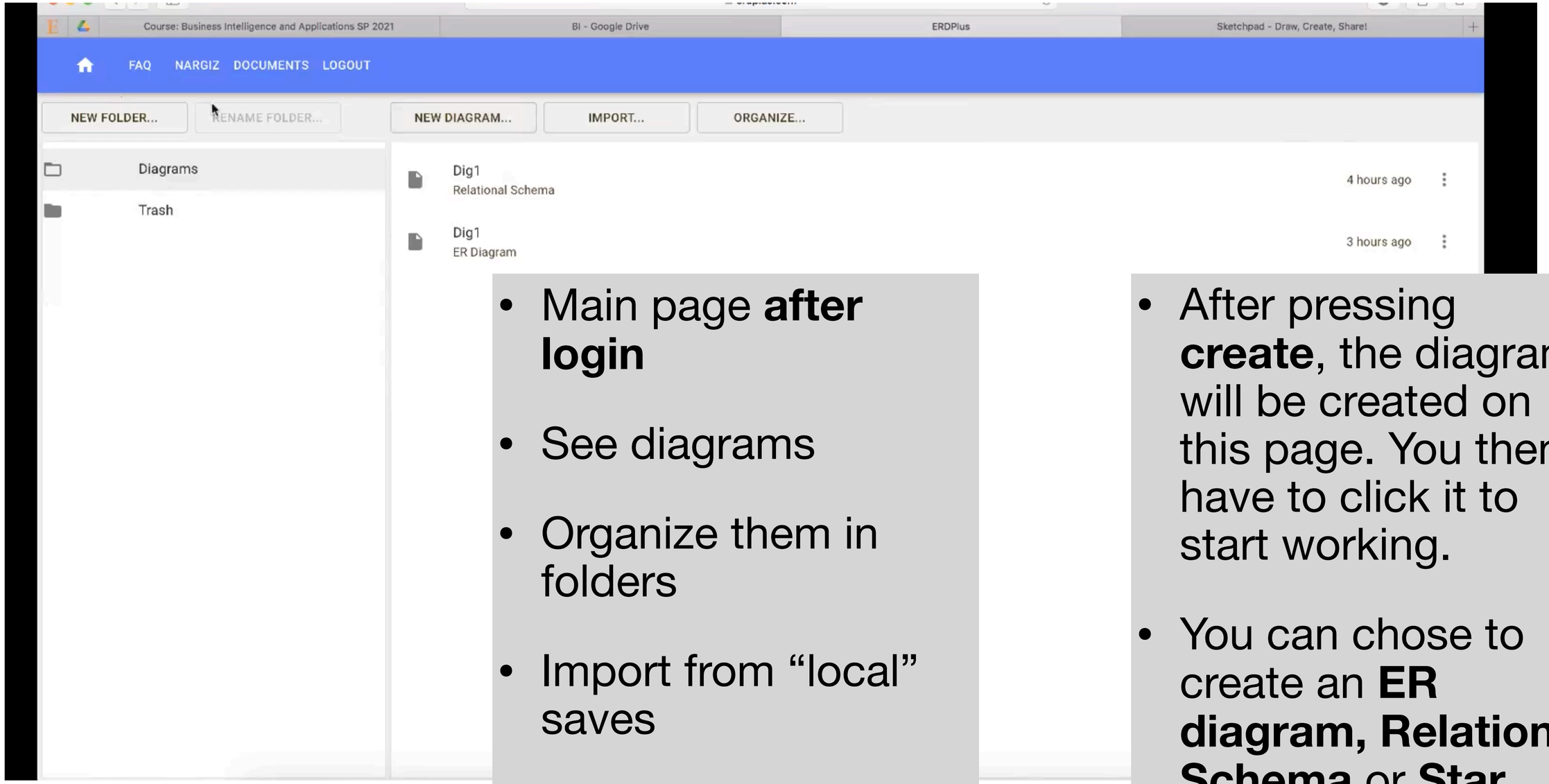
2023

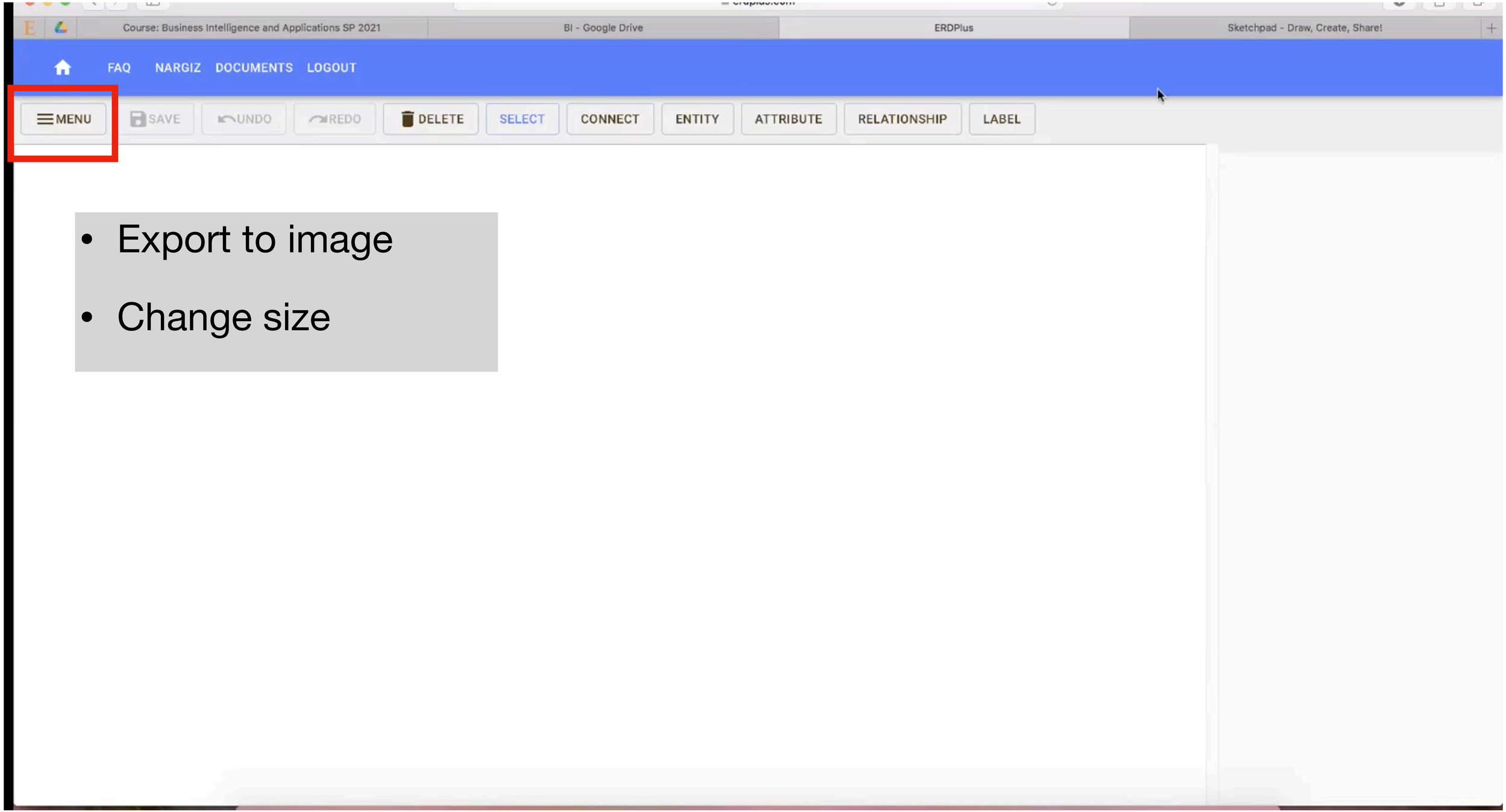


- TRY IT!: no log-in required, but diagrams not saved
- **Suggested**: signup for an account, which allows to save your progress



- Main page **after login**
- See diagrams
- Organize them in folders
- Import from “local” saves
- Create new ones

- After pressing **create**, the diagram will be created on this page. You then have to click it to start working.
- You can chose to create an **ER diagram, Relation Schema** or **Star Schema**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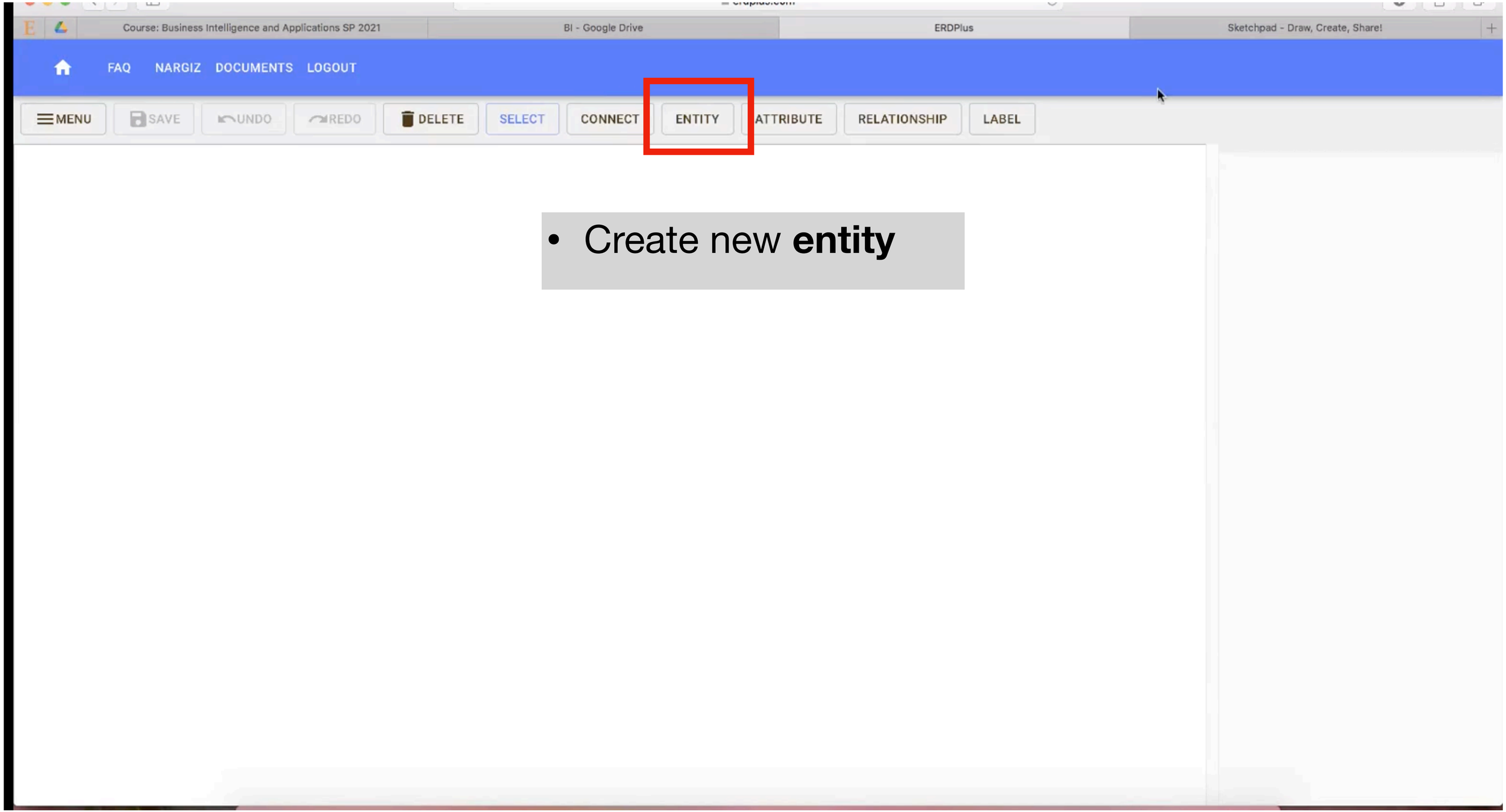
Sketchpad - Draw, Create, Share!
FAQ
NARGIZ
DOCUMENTS
LOGOUT
MENU
SAVE
UNDO
REDO
DELETE
SELECT
CONNECT
ENTITY
ATTRIBUTE
RELATIONSHIP
LABEL
• Export to image
• Change size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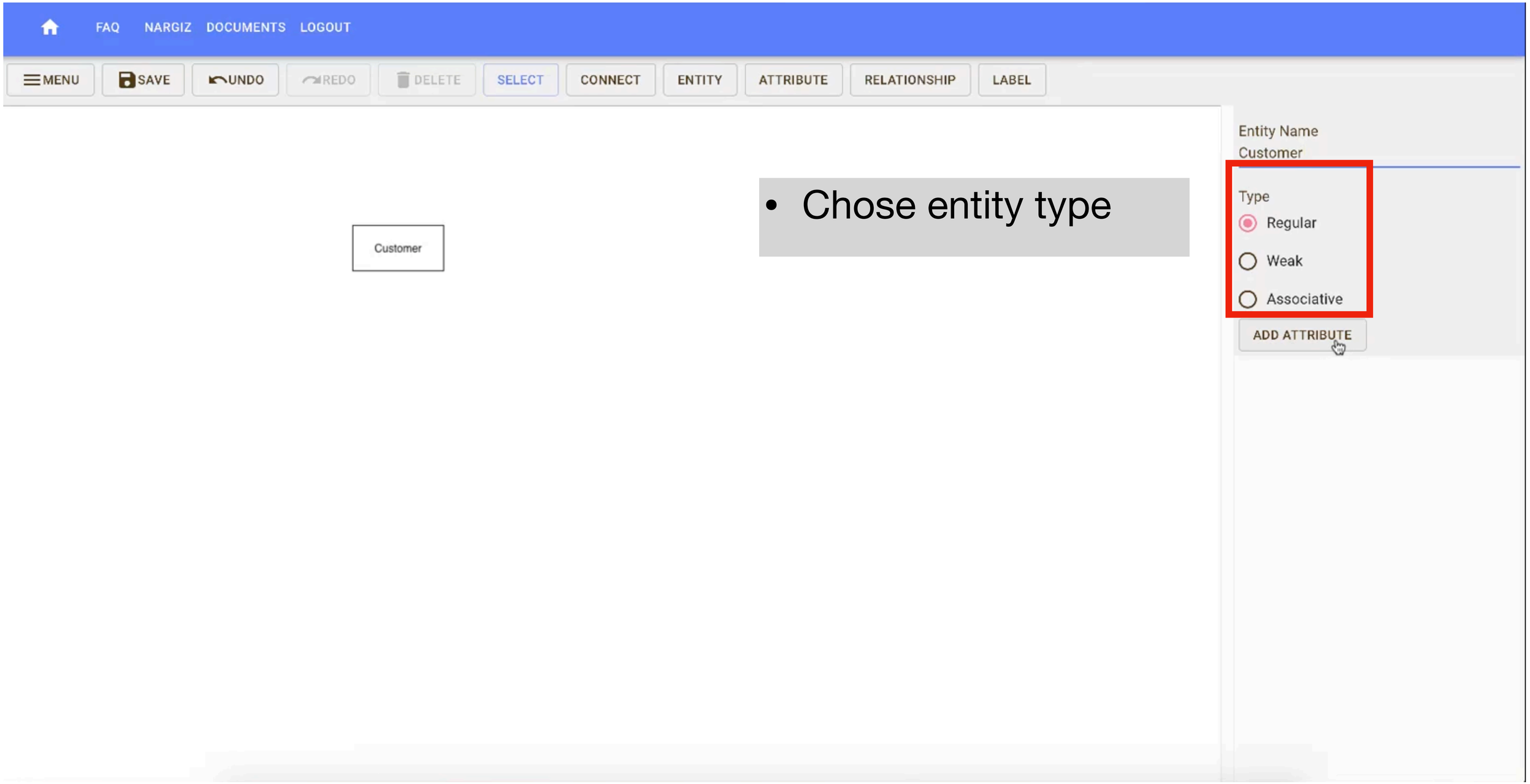
ATTRIBUTE
RELATIONSHIP
LABEL
• Create new **entity**


FAQ
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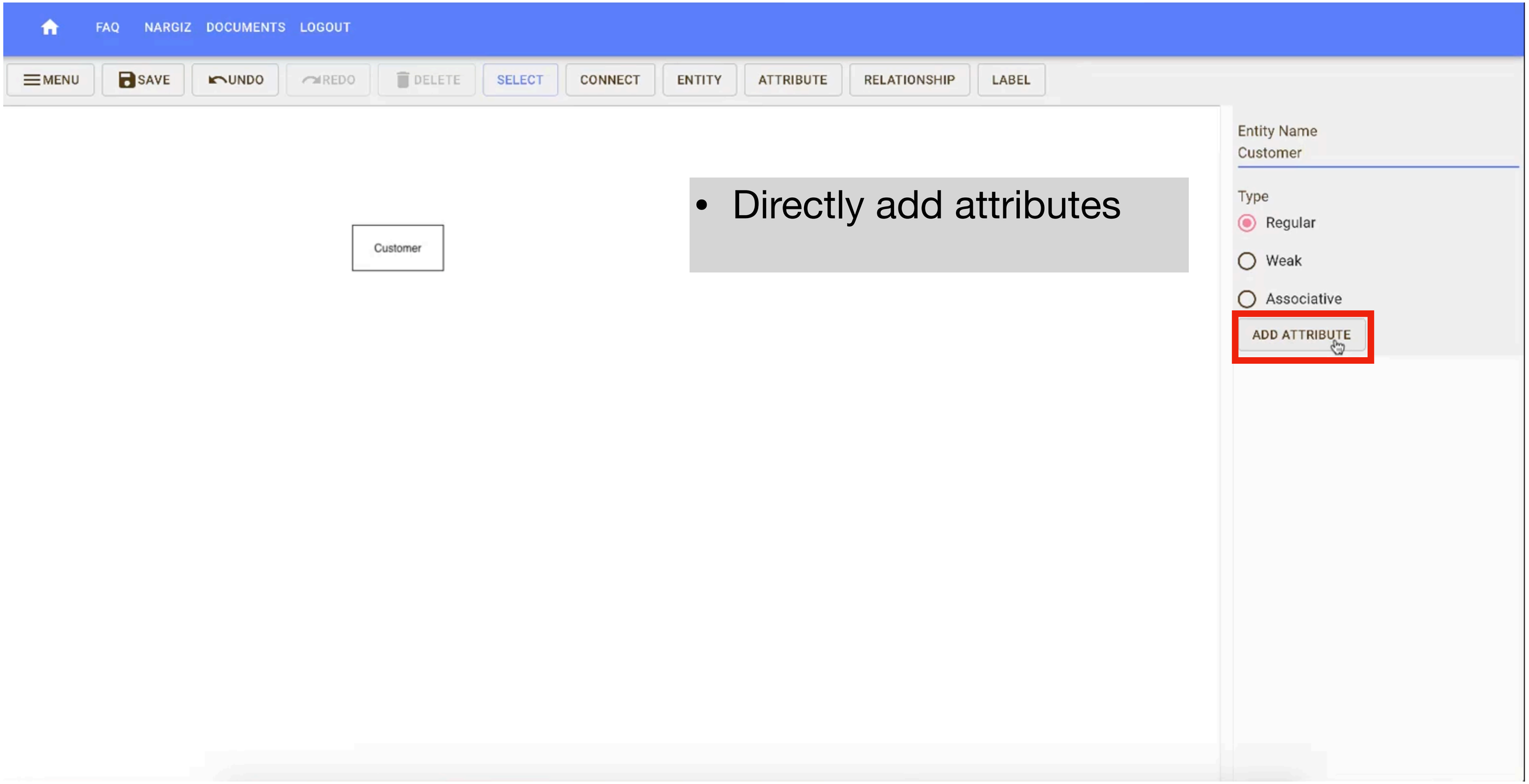
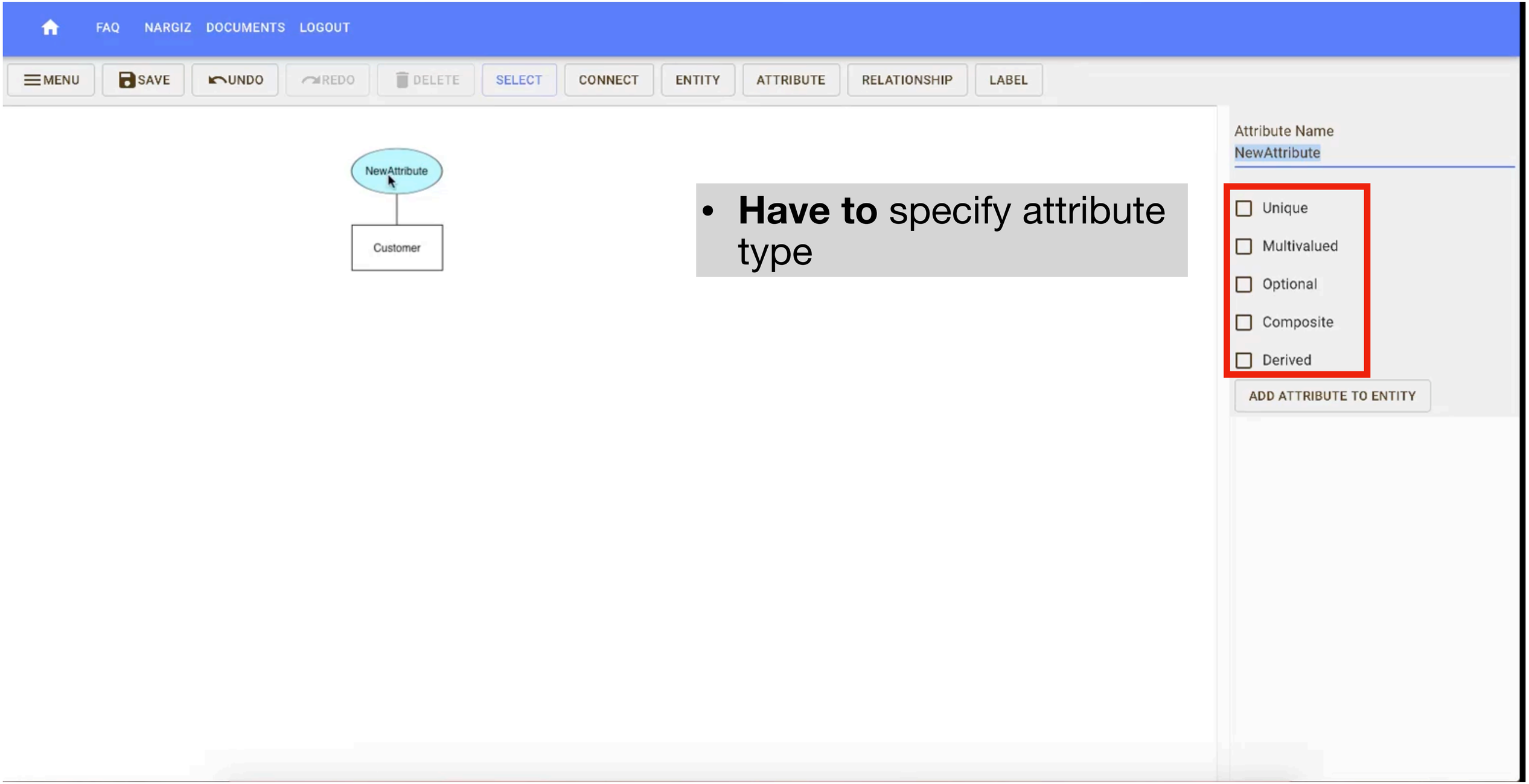
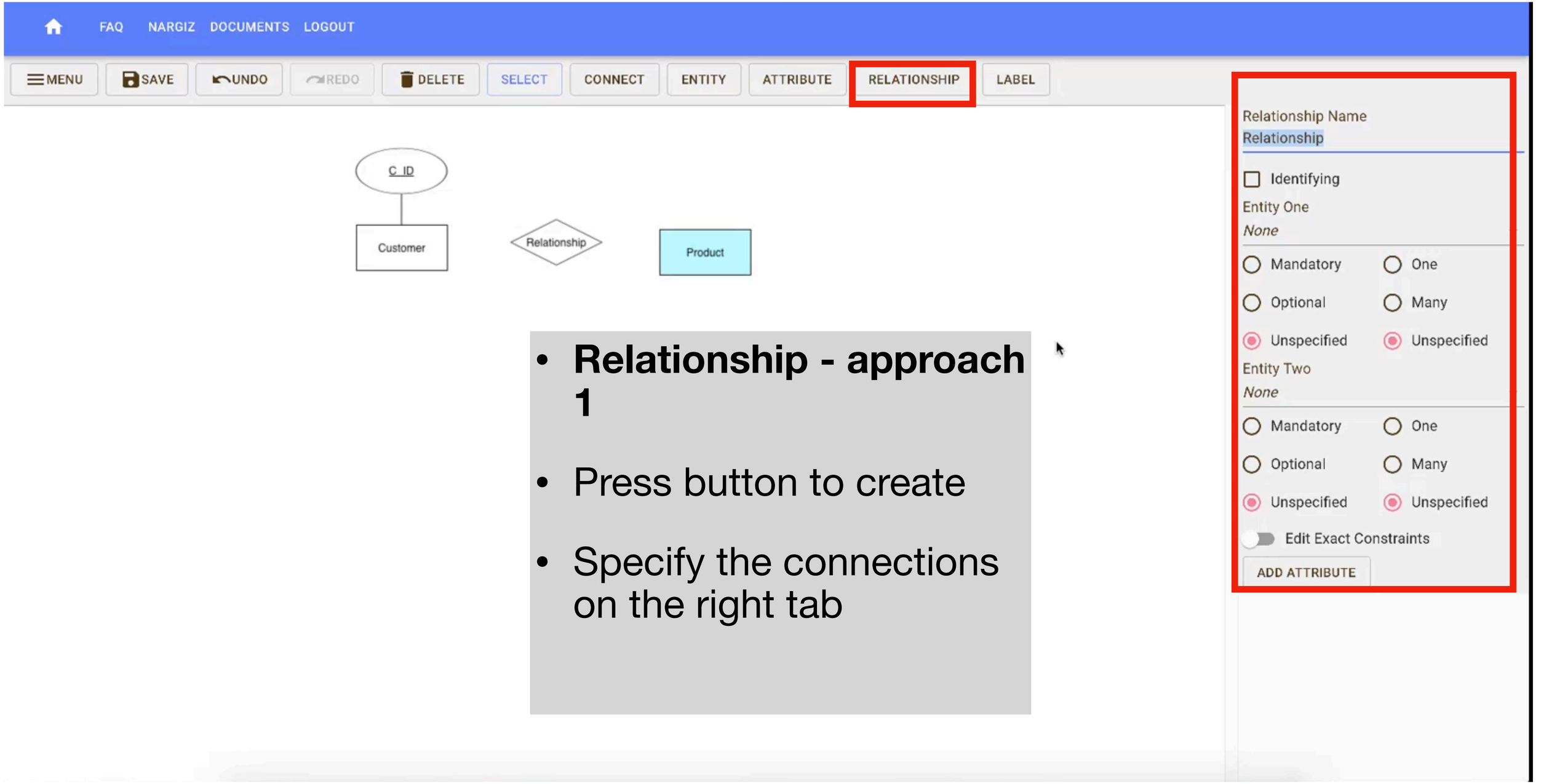
MENU
SAVE
UNDO
REDO
DELETE
SELECT
CONNECT
ENTITY
ATTRIBUTE
RELATIONSHIP
LABEL
Customer
Chose entity type
Entity Name
Customer
Type
Regular
Weak
Associative
ADD ATTRIBUTE



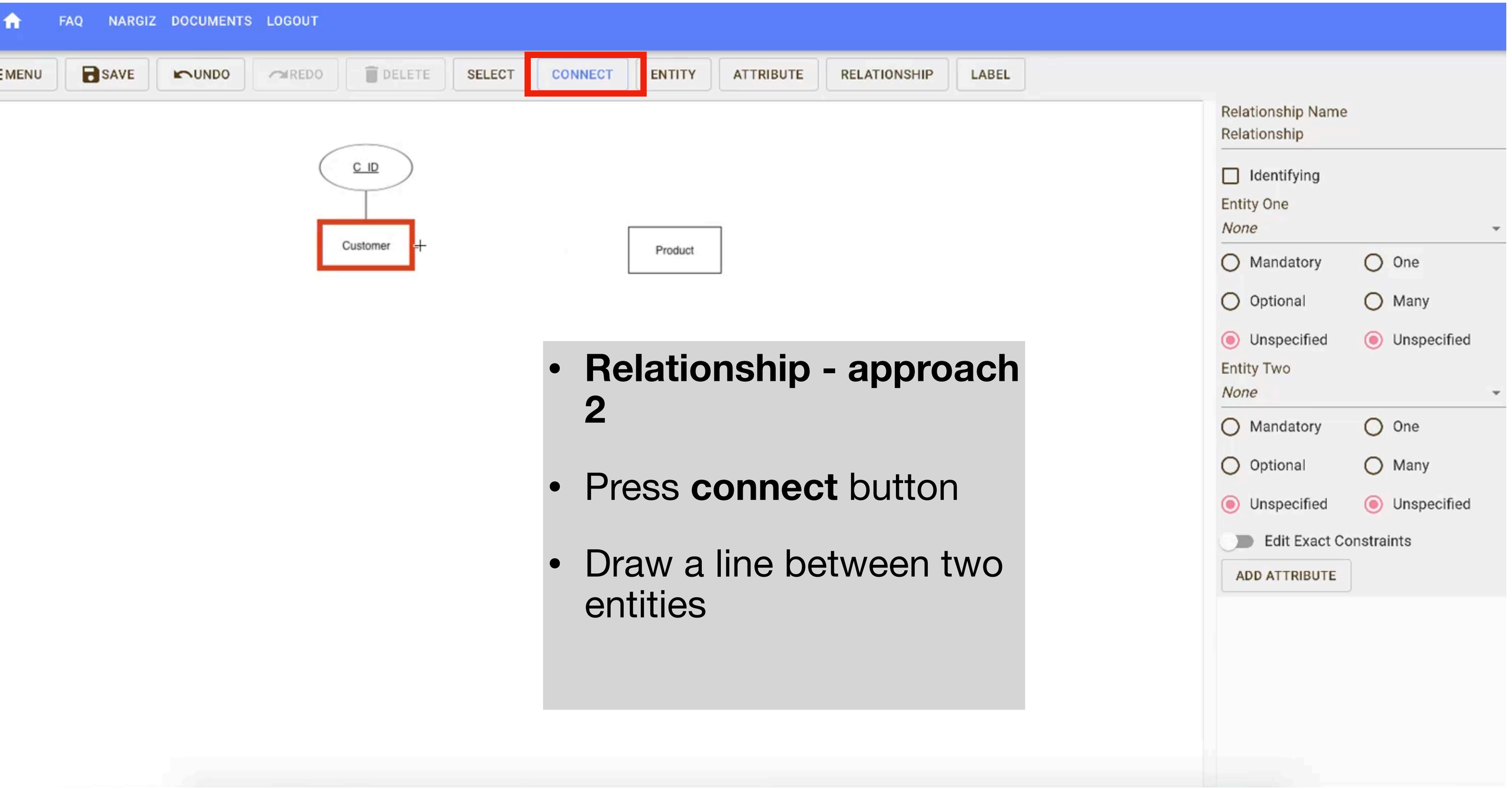
- Directly add attributes



- **Have to** specify attribute type



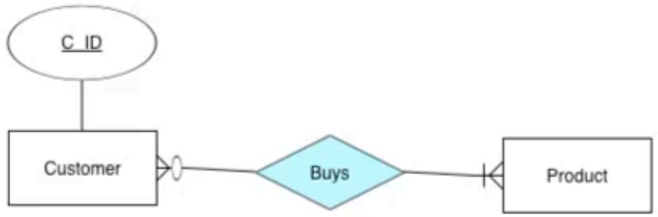
- **Relationship - approach 1**
- Press button to create
- Specify the connections on the right tab

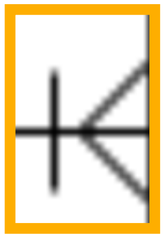


- **Relationship - approach 2**
- Press **connect** button
- Draw a line between two entities

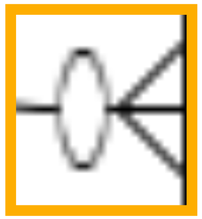
FAQ NARGIZ DOCUMENTS LOGOUT

MENU SAVE UNDO REDO DELETE SELECT CONNECT ENTITY ATTRIBUTE RELATIONSHIP LABEL





1:N



0:N

1:1

0:1

- Different notation than class for relationship type

Relationship Name
Buys

☐ Identifying

Entity One
Customer

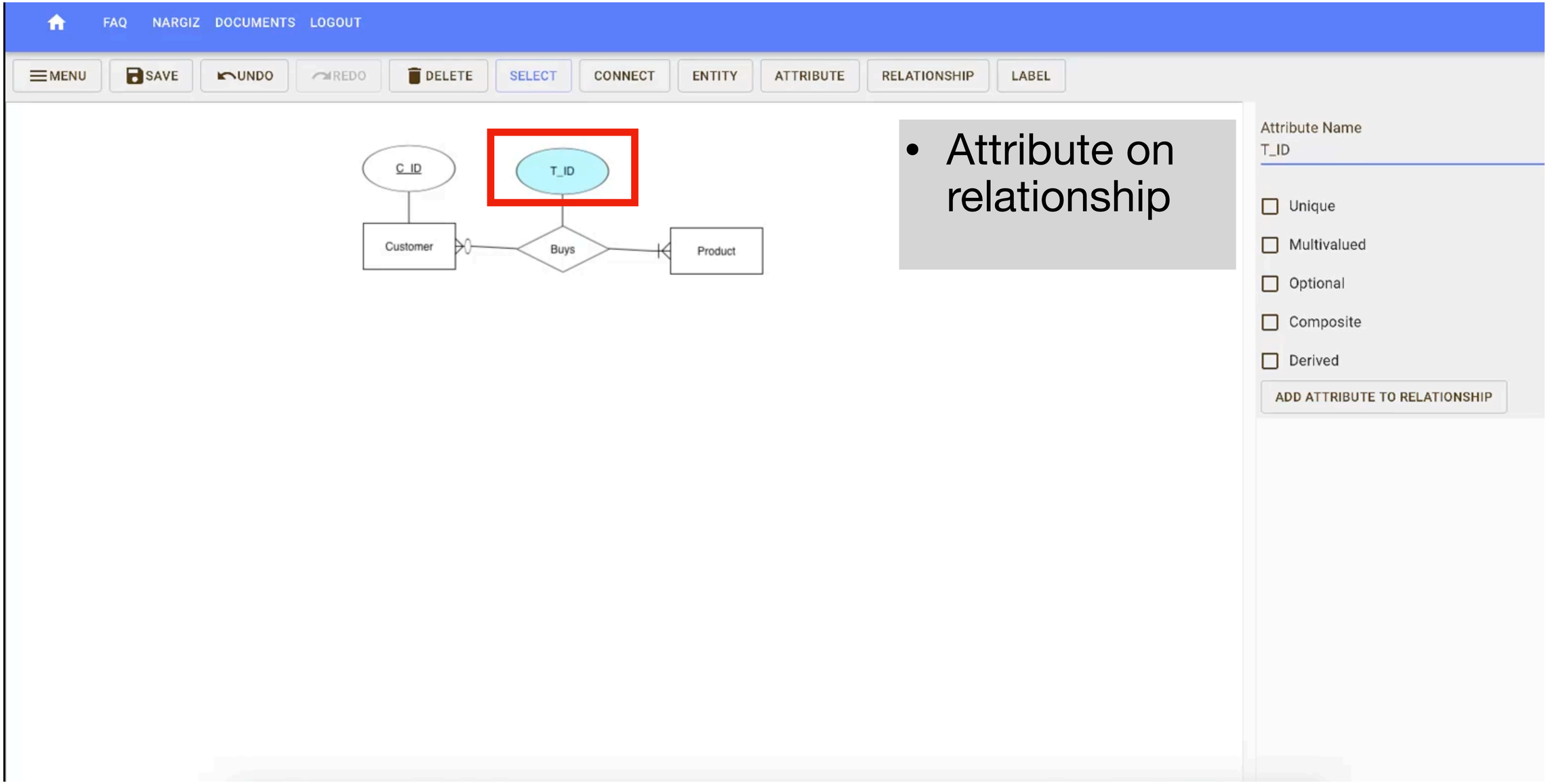
◉ Mandatory 1 ○ One 1
○ Optional 0 ◉ Many N
○ Unspecified ○ Unspecified

Entity Two
Product

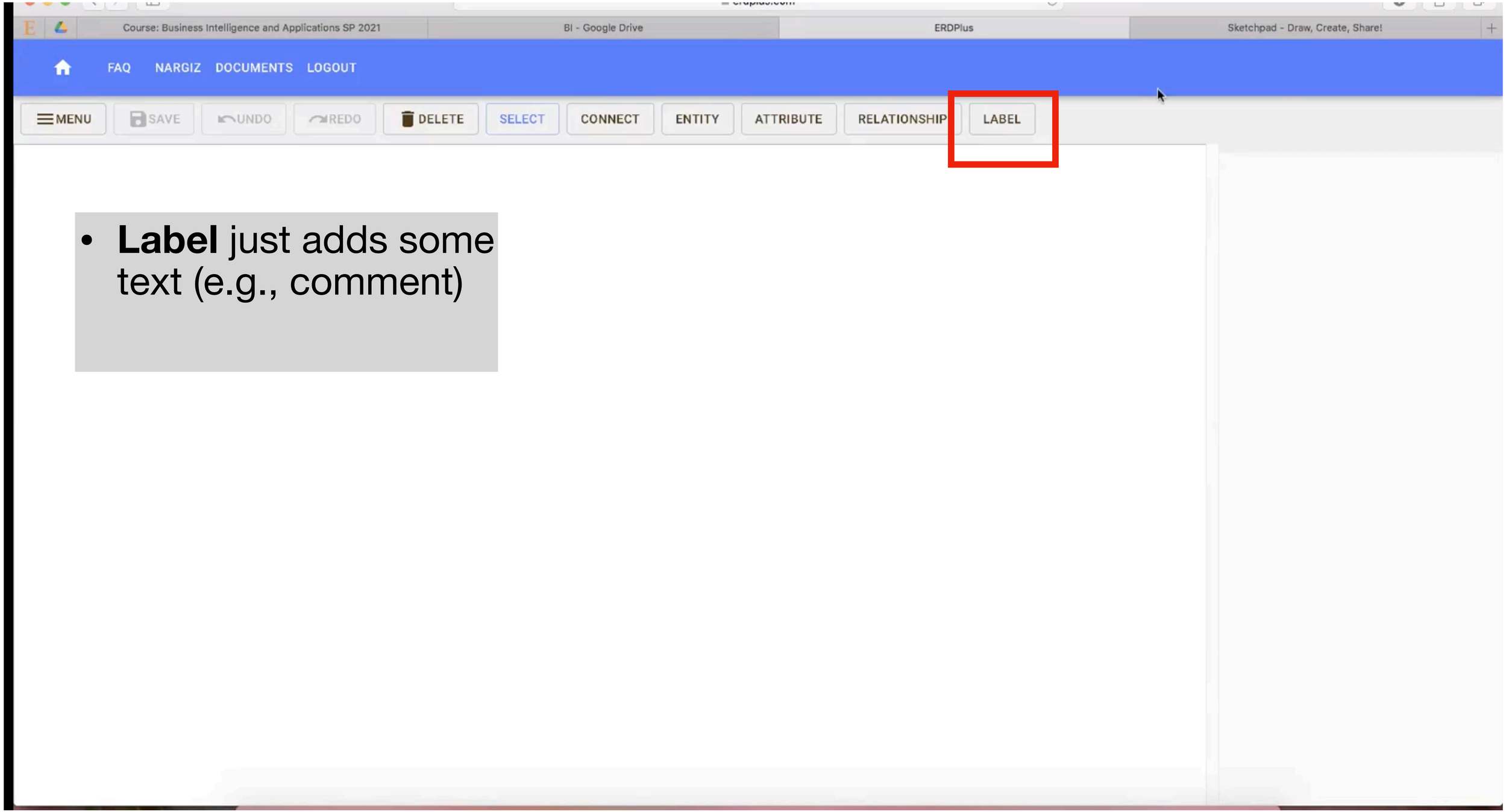
○ Mandatory 1 ○ One 1
◉ Optional 0 ◉ Many N
○ Unspecified ○ Unspecified

Edit Exact Constraints

ADD ATTRIBUTE



- Attribute on relationship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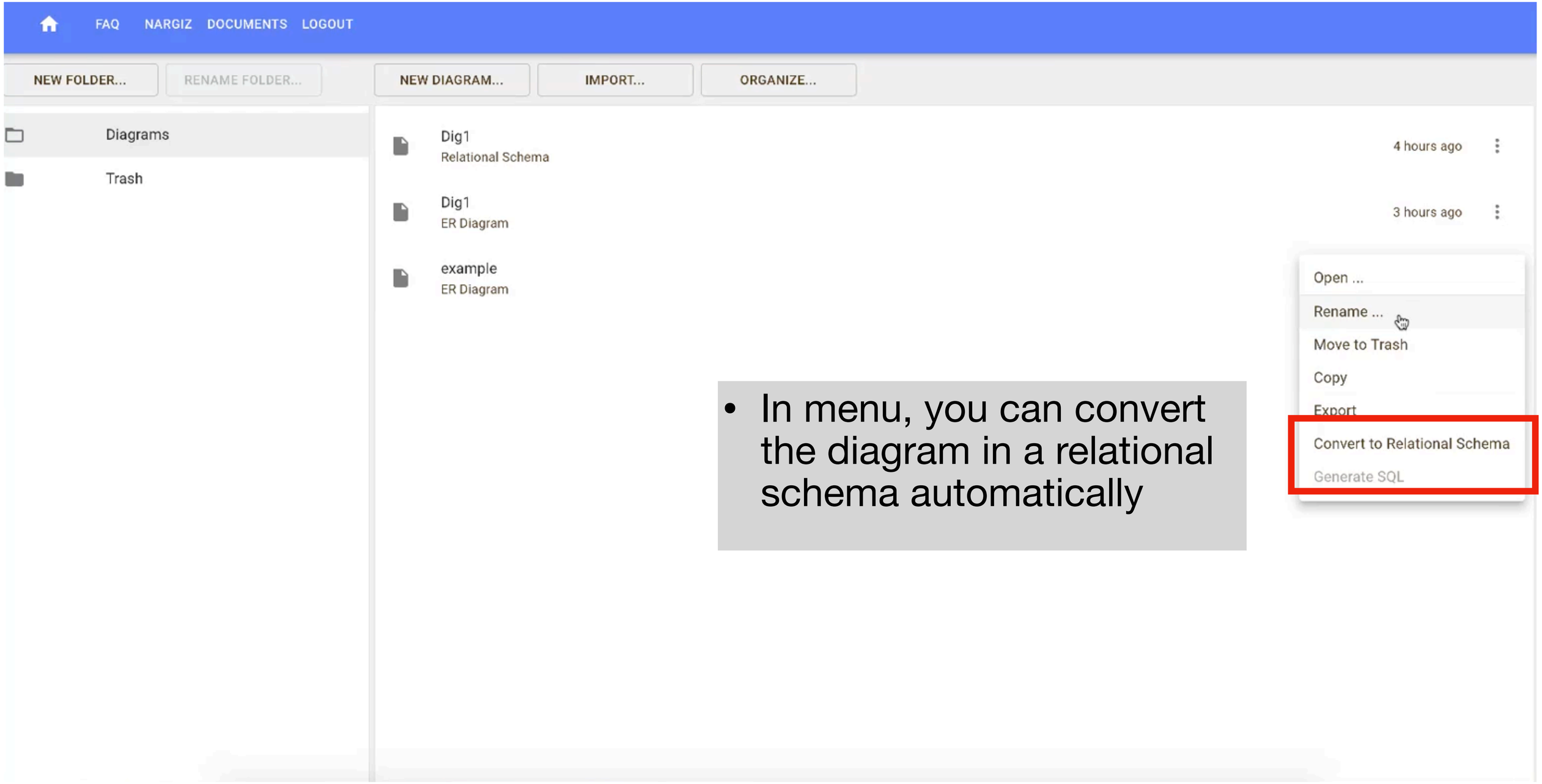
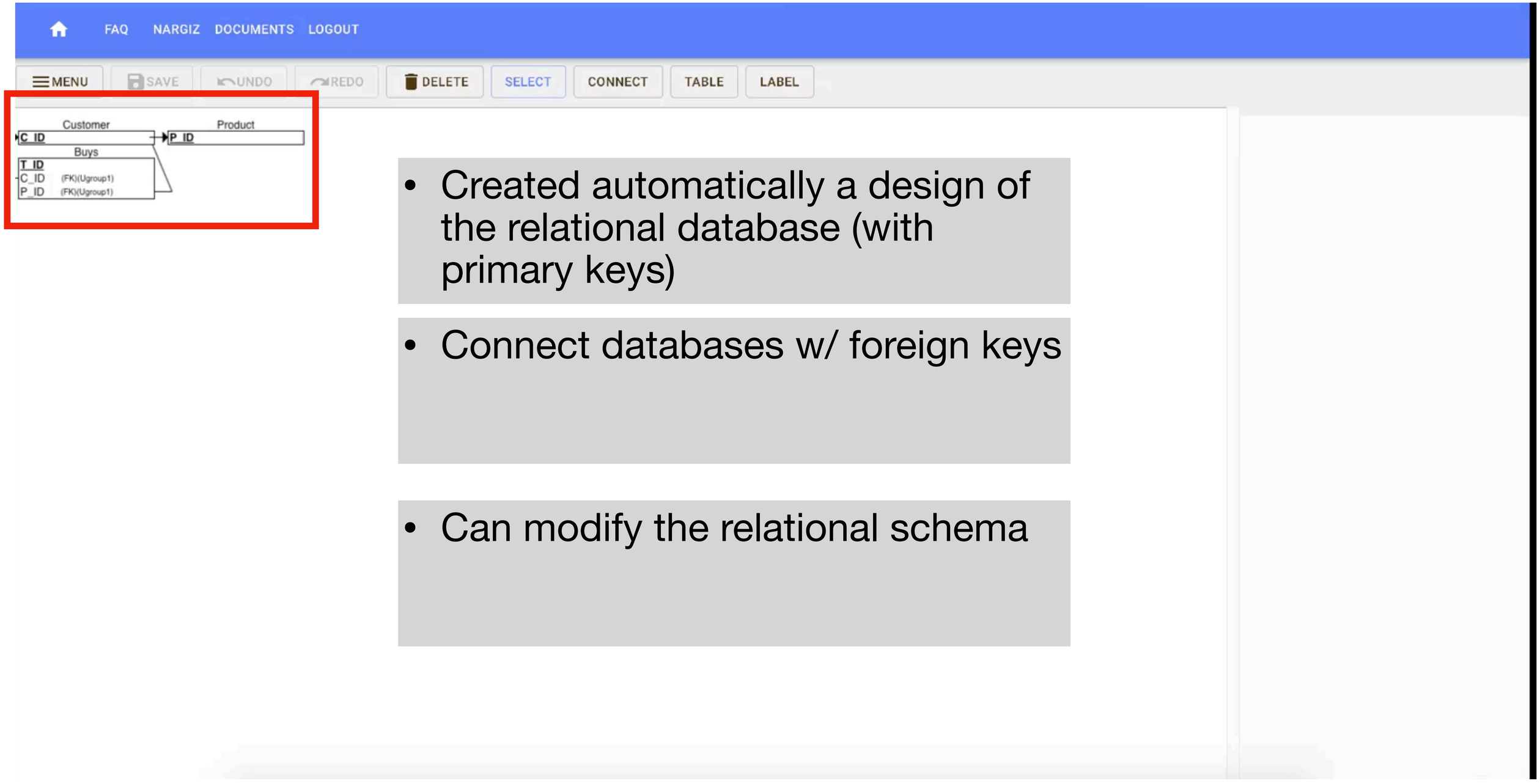
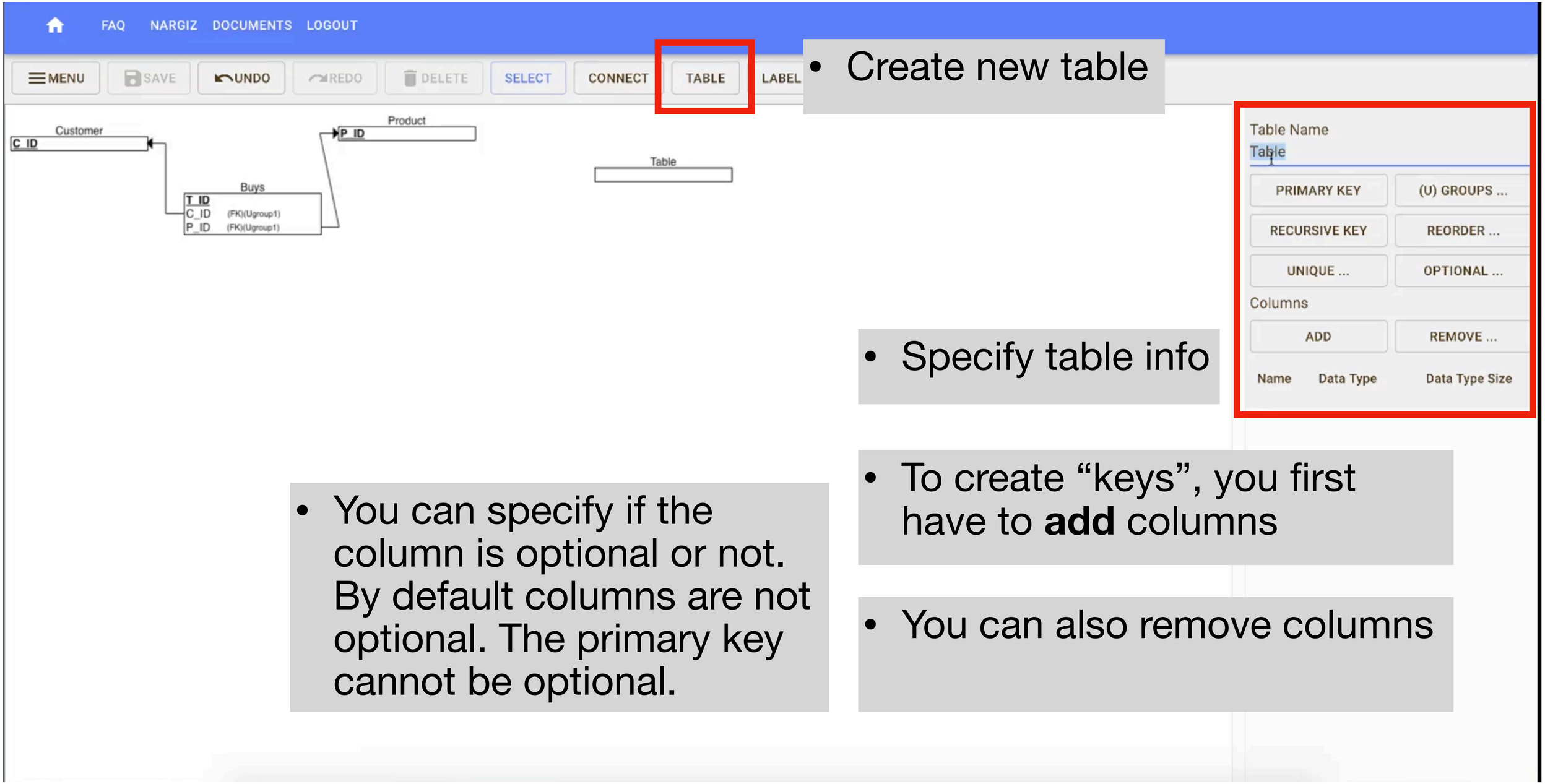
RELATIONSHIP
LABEL
• **Label** just adds some text (e.g., comment)



- In menu, you can convert the diagram in a relational schema automatically



- Created automatically a design of the relational database (with primary keys)
- Connect databases w/ foreign keys
- Can modify the relational schema



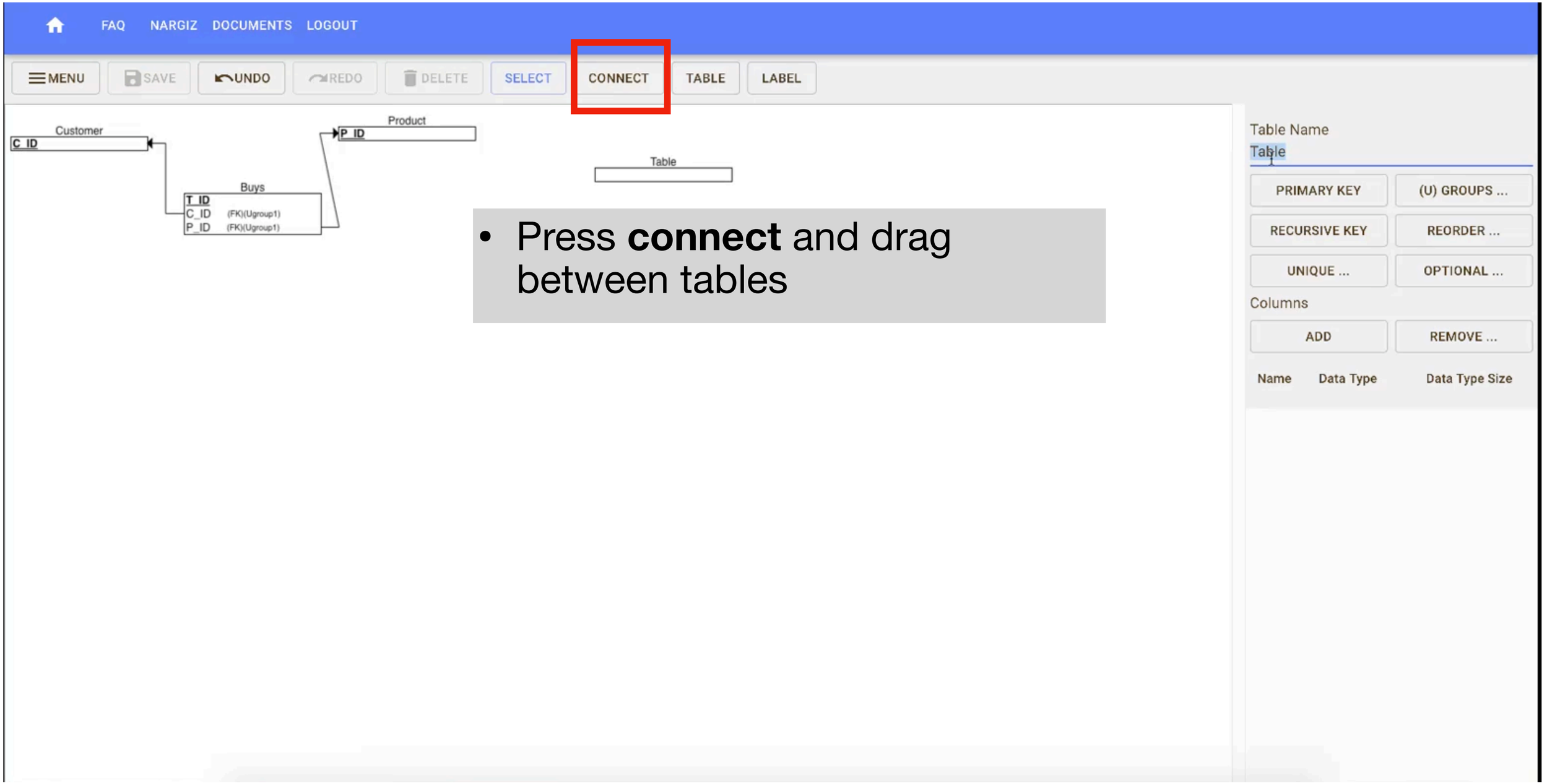
- Create new table

- Specify table info

- You can specify if the column is optional or not. By default columns are not optional. The primary key cannot be optional.

- To create “keys”, you first have to **add** columns

- You can also remove columns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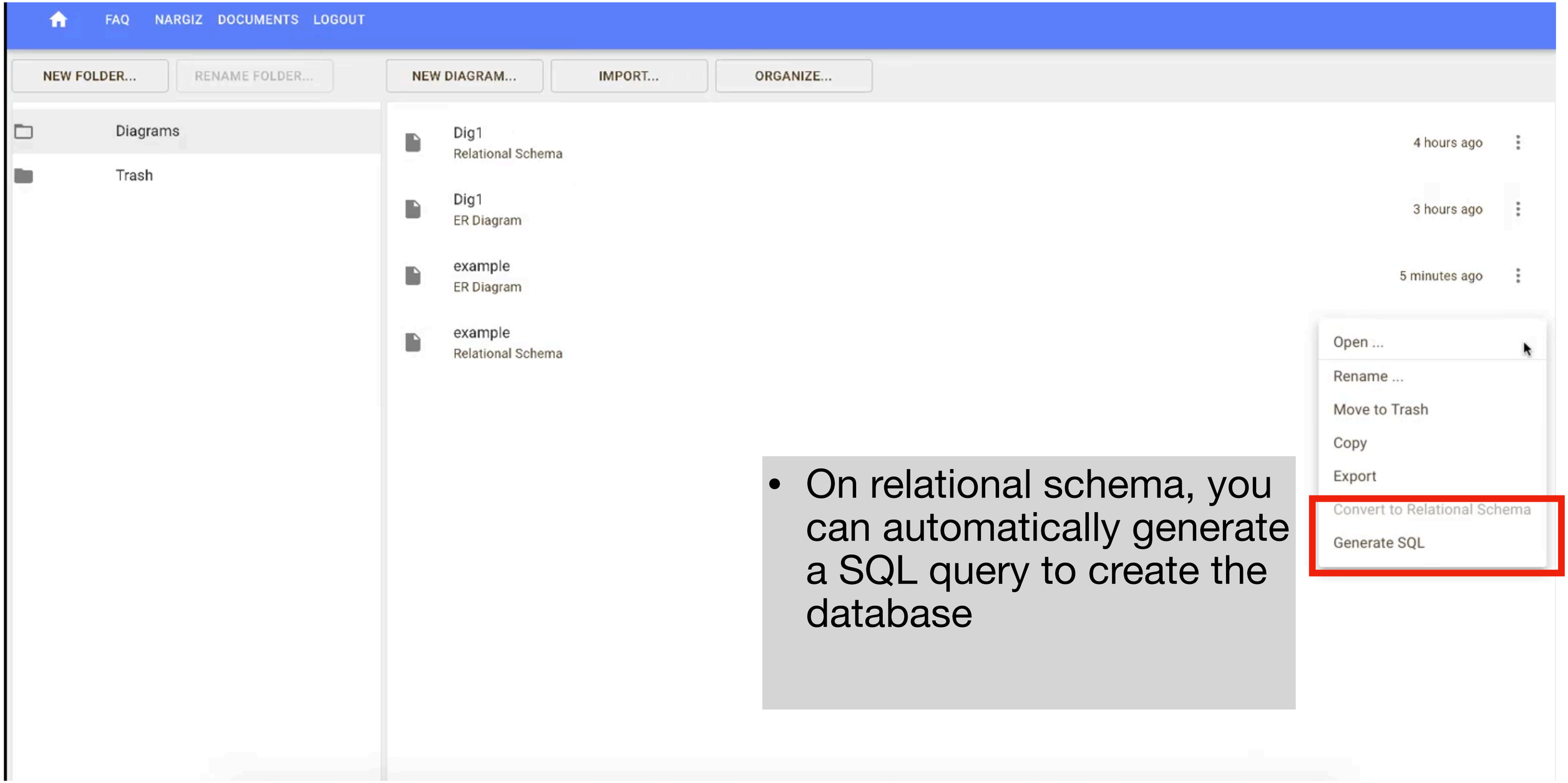
MENU
SAVE
UNDO
REDO
DELETE
SELECT
CONNECT
TABLE
LABEL
Customer
C_ID
Product
P_ID
Buys
T_ID
C_ID (FK)(Ugroup1)
P_ID (FK)(Ugroup1)
Table
Press connect and drag between tables
Table Name
Table
PRIMARY KEY
(U) GROUPS ...
RECURSIVE KEY
REORDER ...
UNIQUE ...
OPTIONAL ...
Columns
ADD
REMOVE ...
Name
Data Type
Data Type Size



- On relational schema, you can automatically generate a SQL query to create the database