

ERDplus quickguide

Business Intelligence & Application 2023

ERDPlus

erdplus.com

HOME FAQ TRY IT! SIGNUP LOGIN

ERD+

A database modeling tool for creating Entity Relationship Diagrams, Relational Schemas, Star Schemas, and SQL DDL statements

Database Modeling

ERDPlus is a web-based database modeling tool that lets you quickly and easily create

- Entity Relationship Diagrams (ERDs)
- Relational Schemas (Relational Diagrams)
- Star Schemas (Dimensional Models)

More features

- Automatically convert ER Diagrams into Relational Schemas
- Export SQL
- Export diagrams as a PNG
- Save diagrams safely on our server


SQL DDL Statements

Export standard SQL

- Generate SQL from Relational Schemas and Star Schemas
- Select from common data types and data sizes
- Works with most contemporary RDBMS tools including Oracle, MySQL, Microsoft SQL Server, PostgreSQL, Teradata, IBM DB2, Microsoft Access, and others.

Textbook

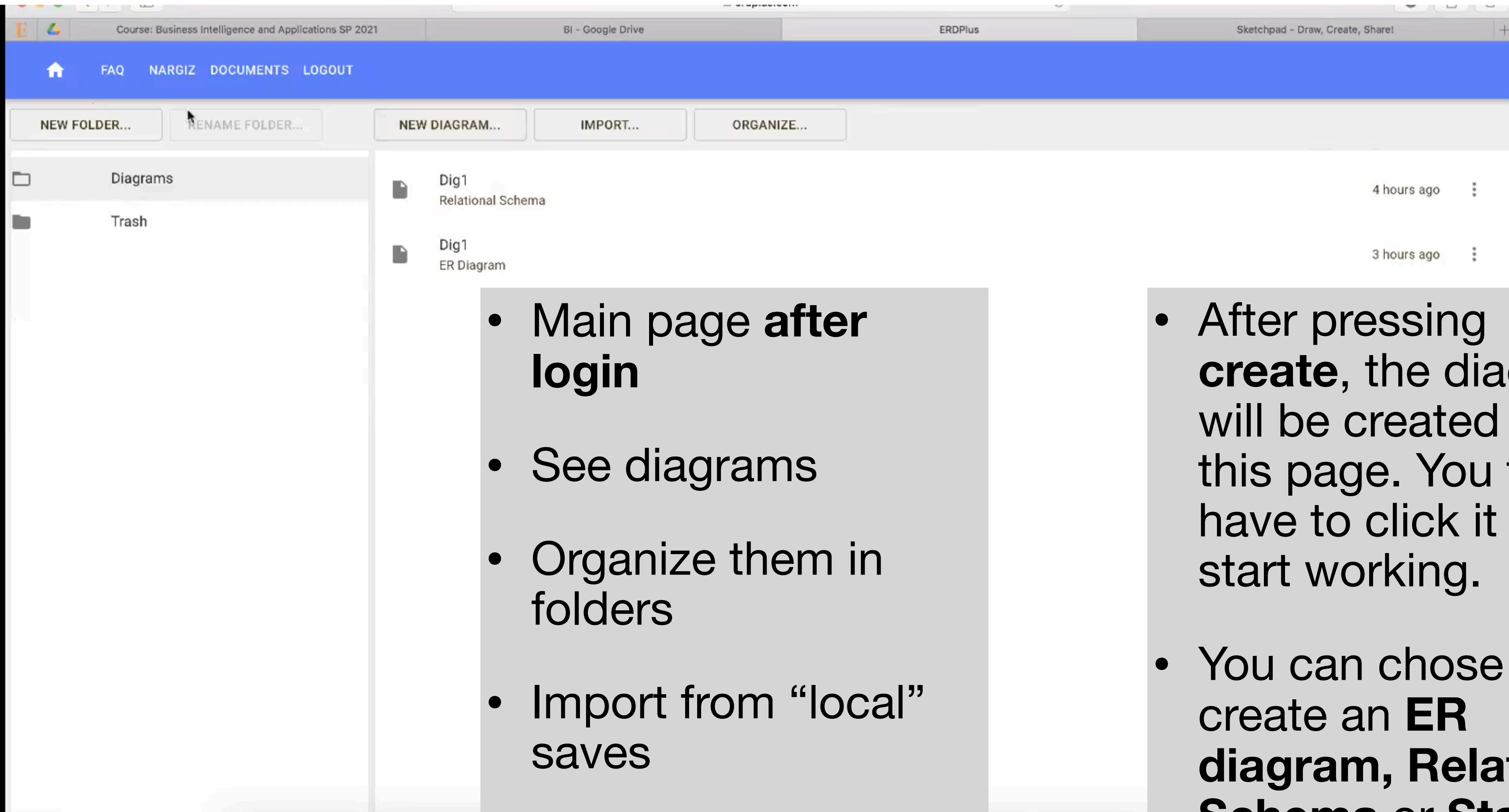
The textbook using ERDPlus is available from a much lower price! Get the eBook for \$51.50 or the print book for \$74.50.



Database Systems
Introduction to Databases
and Data Warehouses
Nenad Jukić | Susan Vrbsky | Svetlozar Nestorov

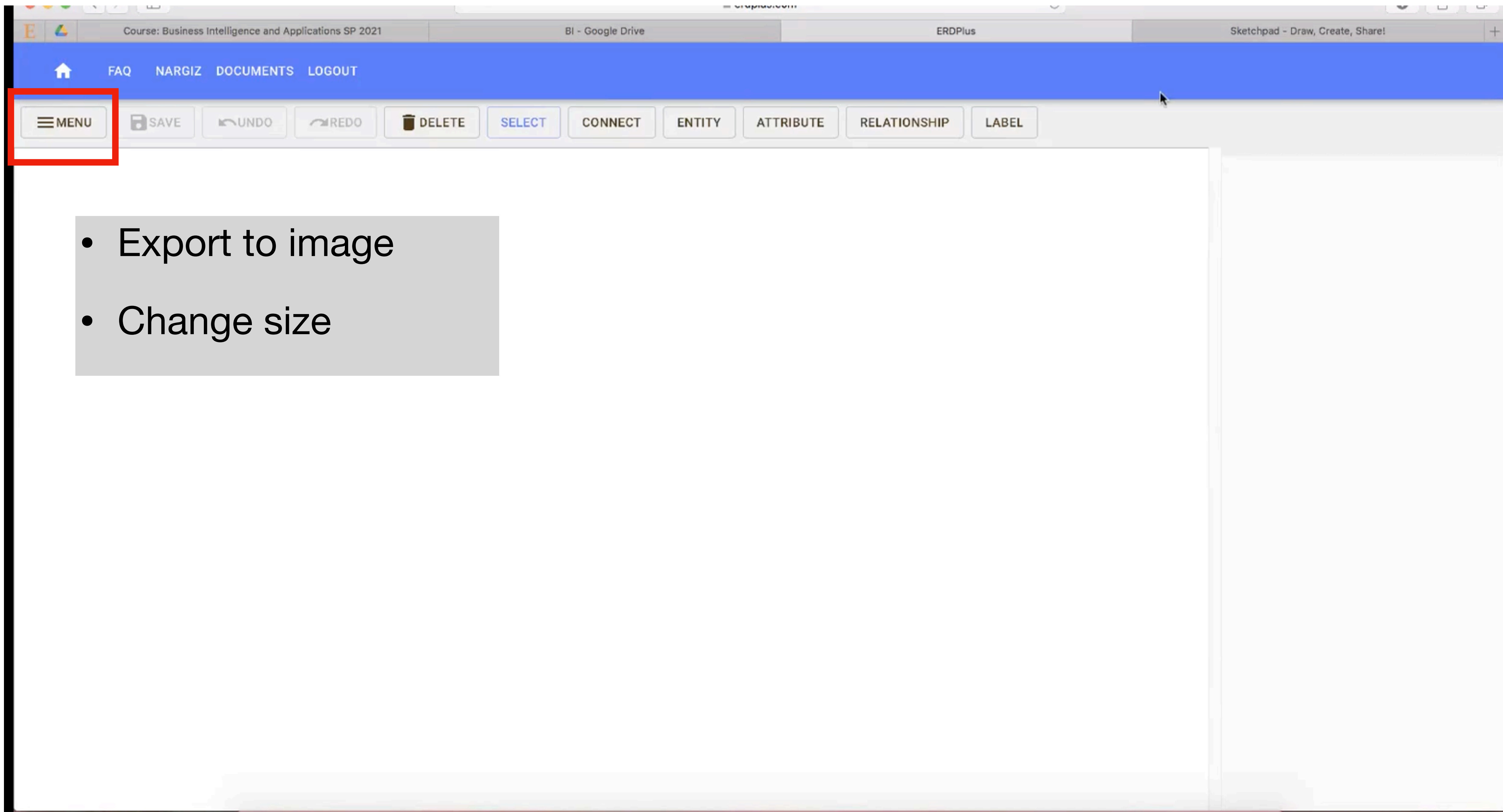
https://erdplus.com/standalone

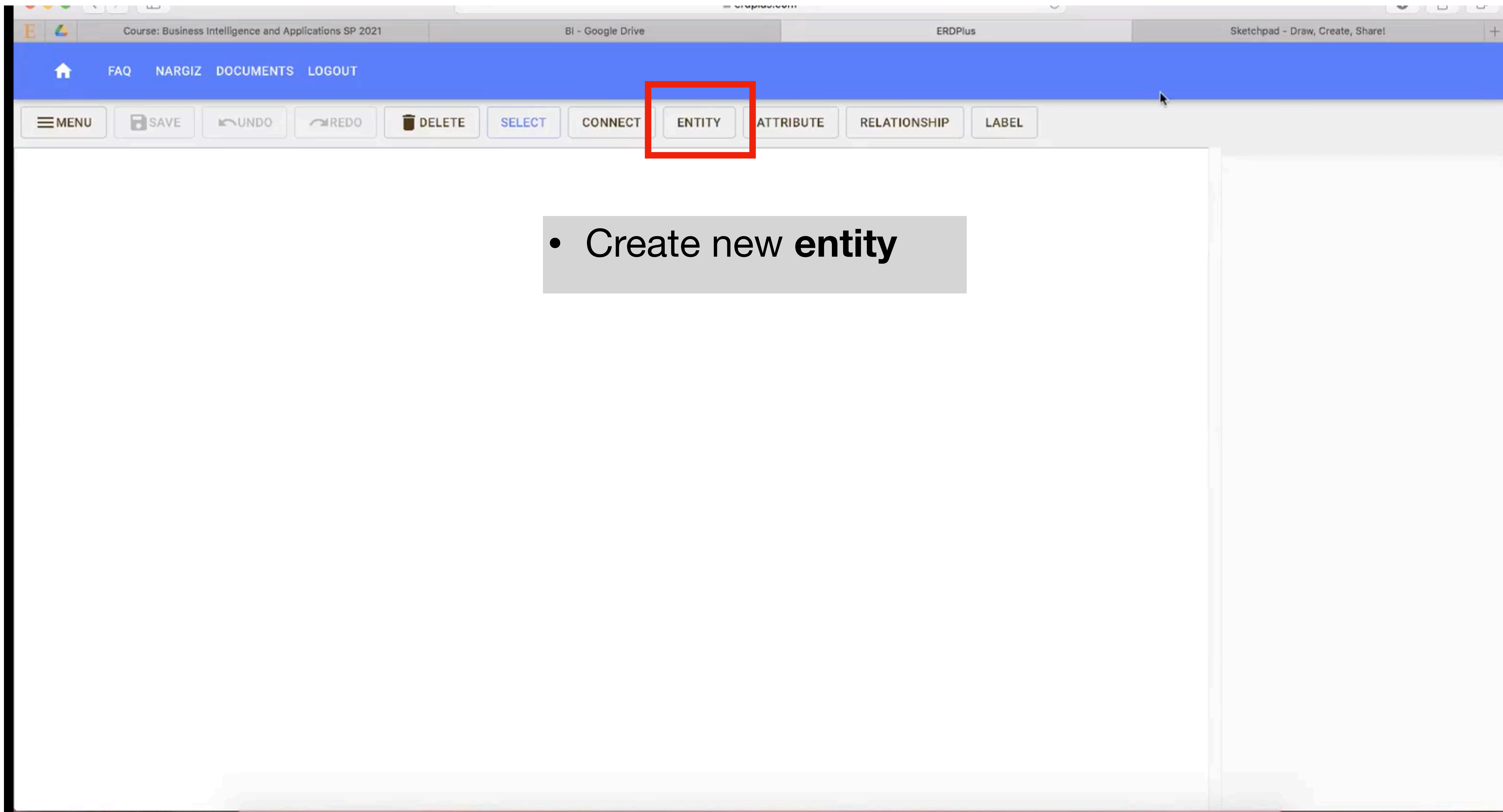
- TRY IT!: no log-in required, but diagrams not saved
- **Suggested:** signup for an account, which allows to save your progress



- 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**





- Create new **entity**

[FAQ](#)[NARGIZ](#)[DOCUMENTS](#)[LOGOUT](#)

MENU



SAVE



UNDO



REDO



DELETE

SELECT

CONNECT

ENTITY

ATTRIBUTE

RELATIONSHIP

LABEL

Customer

- Chose entity type

Entity Name

Customer

Type



Regular



Weak



Associative

ADD ATTRIBUTE



MENU

SAVE

UNDO

REDO

DELETE

SELECT

CONNECT

ENTITY

ATTRIBUTE

RELATIONSHIP

LABEL

Customer

- Directly add attributes

Entity Name
Customer

Type

☒ Regular

☐ Weak

☐ Associative

ADD ATTRIBUTE



MENU

SAVE

UNDO

REDO

DELETE

SELECT

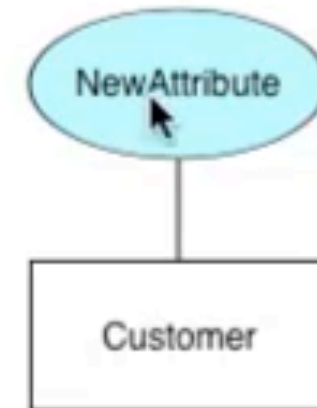
CONNECT

ENTITY

ATTRIBUTE

RELATIONSHIP

LABEL



- **Have to specify attribute type**

Attribute Name

NewAttribute

☐ Unique

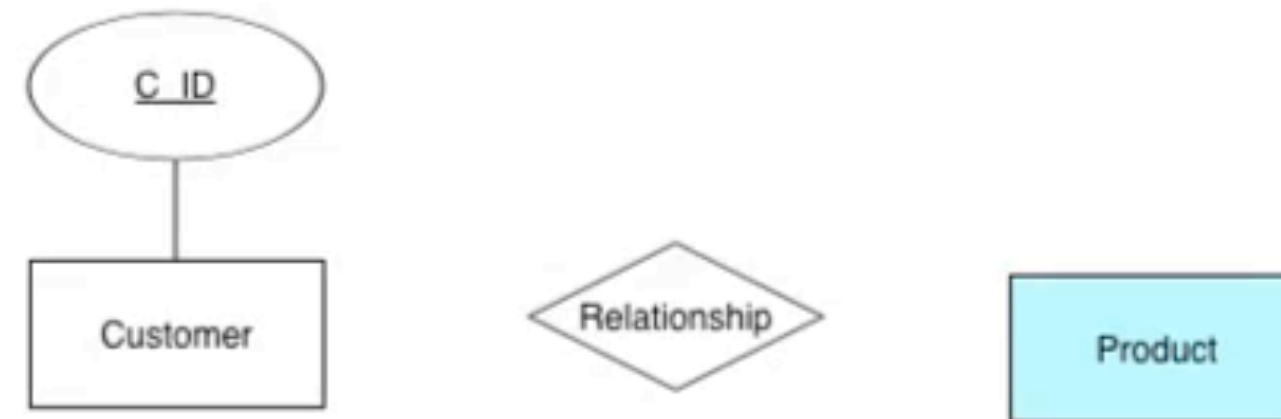
☐ Multivalued

☐ Optional

☐ Composite

☐ Derived

ADD ATTRIBUTE TO ENTITY



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

Relationship Name

Relationship

☐ Identifying

Entity One

None

☐ Mandatory
 ☐ One

☐ Optional
 ☐ Many

☒ Unspecified
 ☒ Unspecified

Entity Two

None

☐ Mandatory
 ☐ One

☐ Optional
 ☐ Many

☒ Unspecified
 ☒ Unspecified

☐ Edit Exact Constraints

ADD ATTRIBUTE



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

Relationship Name

Relationship

☐ Identifying

Entity One

None

☐ Mandatory

☐ Optional

☒ Unspecified

☐ One

☐ Many

☒ Unspecified

Entity Two

None

☐ Mandatory

☐ Optional

☒ Unspecified

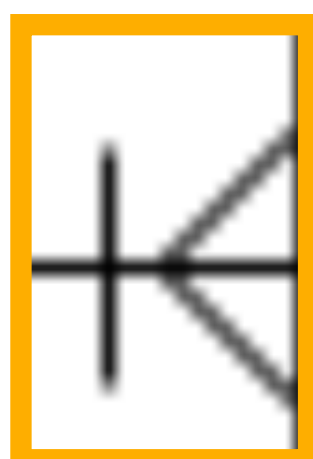
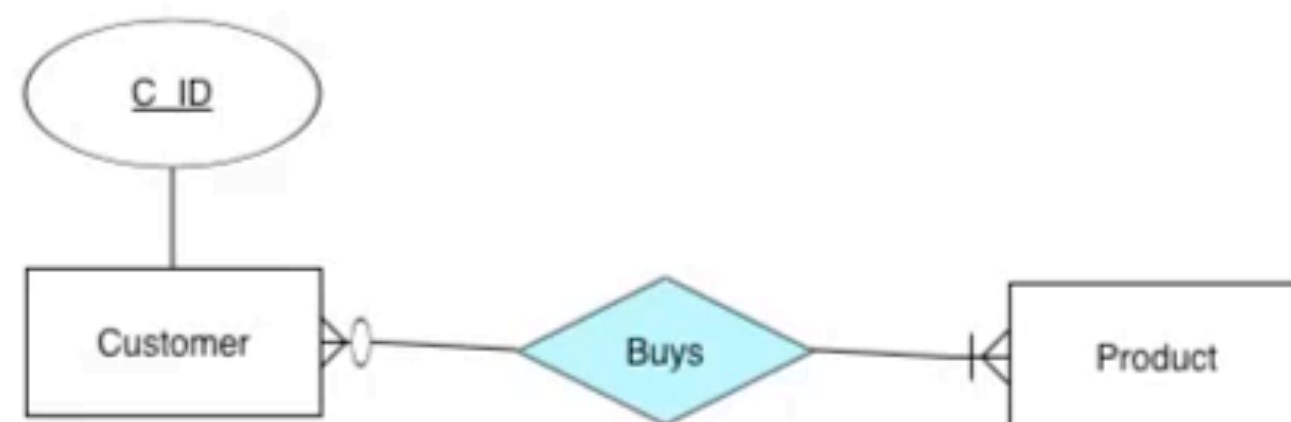
☐ One

☐ Many

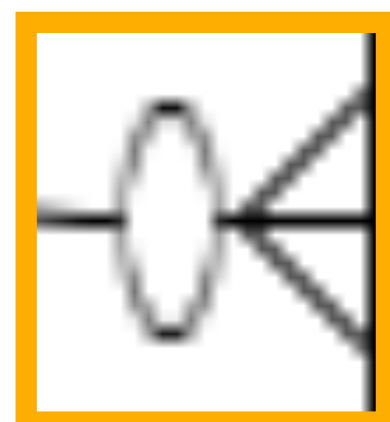
☒ Unspecified

☐ Edit Exact Constraints

ADD ATTRIBUTE

[FAQ](#)[NARGIZ](#)[DOCUMENTS](#)[LOGOUT](#)[MENU](#)[SAVE](#)[UNDO](#)[REDO](#)[DELETE](#)[SELECT](#)[CONNECT](#)[ENTITY](#)[ATTRIBUTE](#)[RELATIONSHIP](#)[LABEL](#)

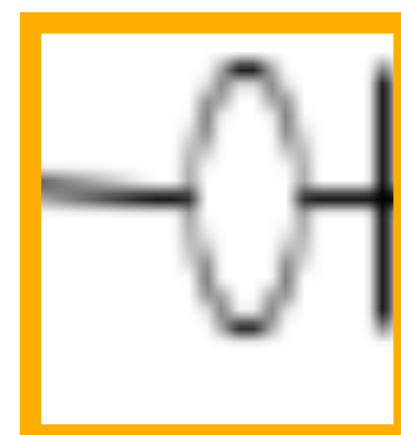
1:N



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

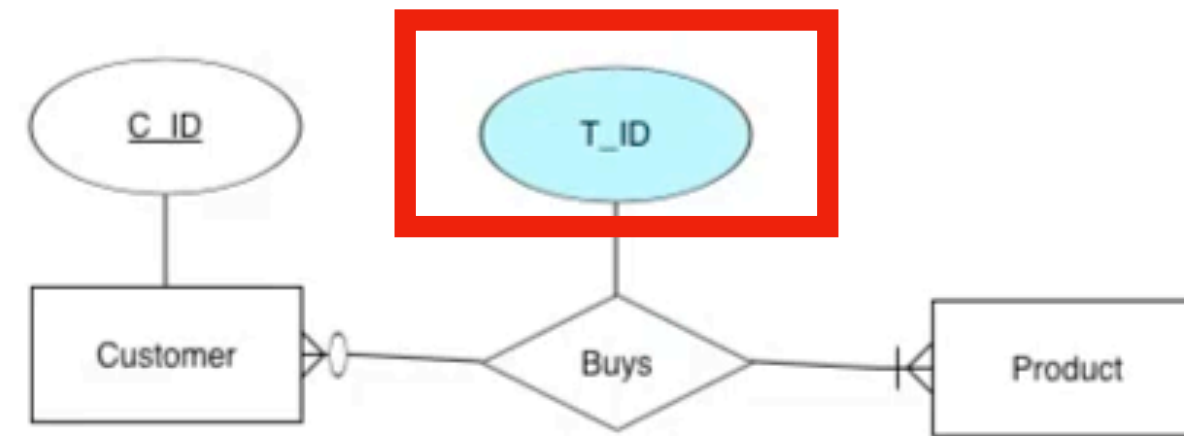
Entity Two

Product

☐ Mandatory 1 ☐ One 1
☒ Optional 0 ☒ Many N
☐ Unspecified ☒ Unspecified

☐ Edit Exact Constraints

ADD ATTRIBUTE

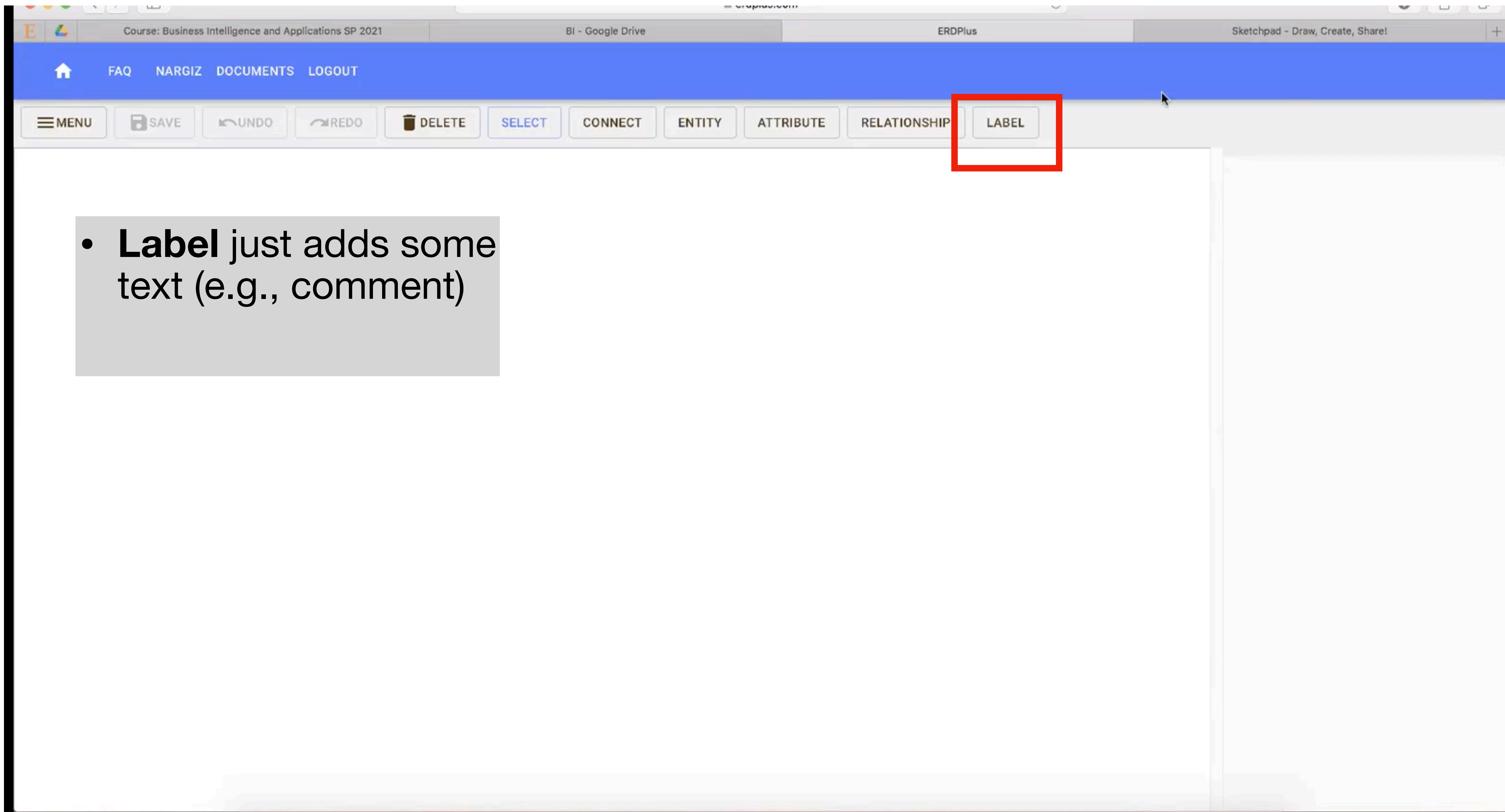
[FAQ](#)[NARGIZ](#)[DOCUMENTS](#)[LOGOUT](#)[MENU](#)[SAVE](#)[UNDO](#)[REDO](#)[DELETE](#)[SELECT](#)[CONNECT](#)[ENTITY](#)[ATTRIBUTE](#)[RELATIONSHIP](#)[LABEL](#)

- Attribute on relationship

Attribute Name

T_ID

☐ Unique☐ Multivalued☐ Optional☐ Composite☐ Derived[ADD ATTRIBUTE TO RELATIONSHIP](#)



- **Label** just adds some text (e.g., comment)

[FAQ](#)[NARGIZ](#)[DOCUMENTS](#)[LOGOUT](#)[NEW FOLDER...](#)[RENAME FOLDER...](#)[NEW DIAGRAM...](#)[IMPORT...](#)[ORGANIZE...](#)[Diagrams](#)[Trash](#)[Dig1](#)[Relational Schema](#)

4 hours ago

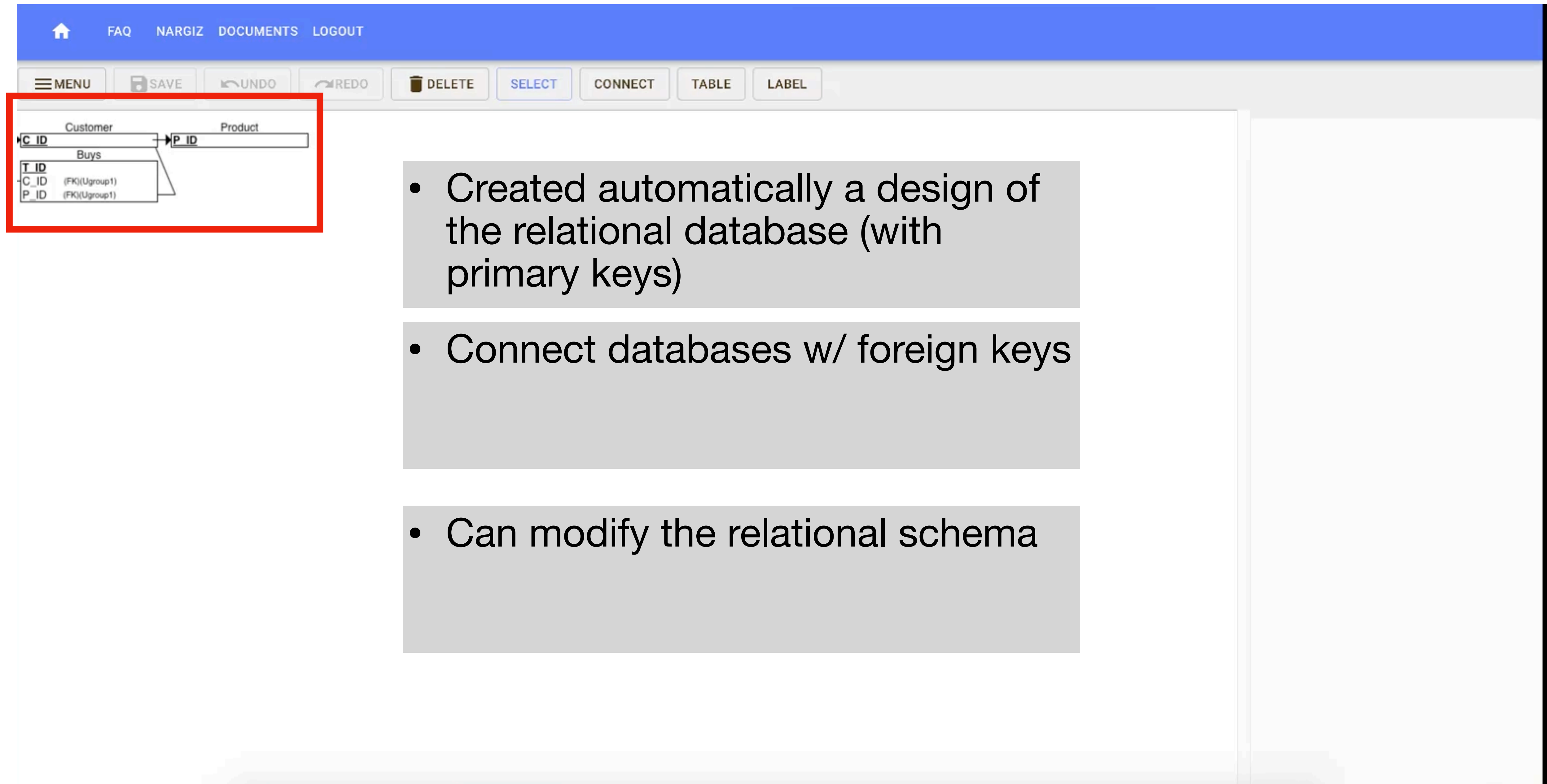
[Dig1](#)[ER Diagram](#)

3 hours ago

[example](#)[ER Diagram](#)

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

[Open ...](#)[Rename ...](#)[Move to Trash](#)[Copy](#)[Export](#)[Convert to Relational Schema](#)[Generate SQL](#)





MENU

SAVE

UNDO

REDO

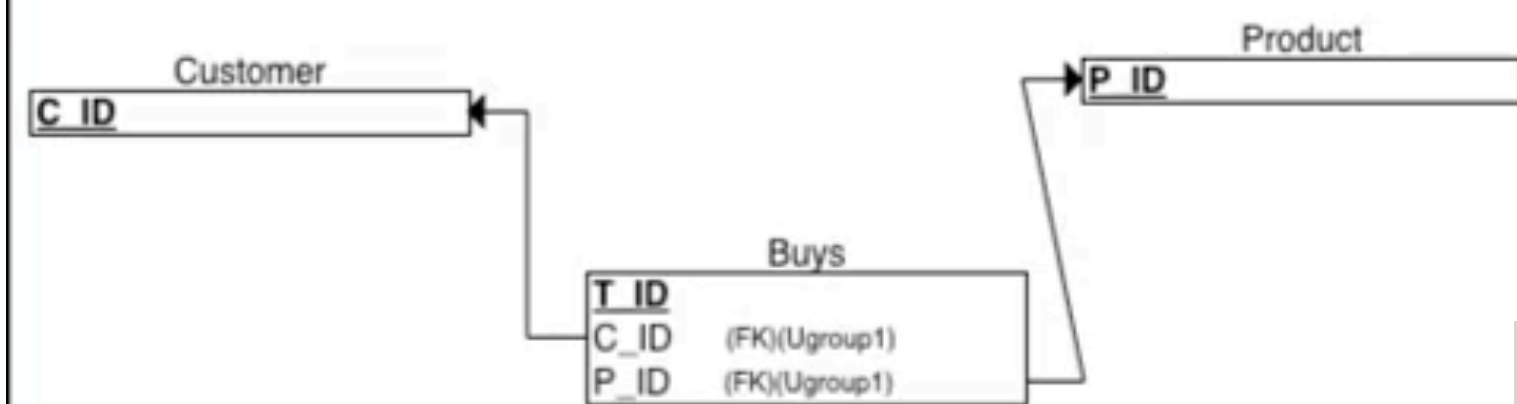
DELETE

SELECT

CONNECT

TABLE

LABEL



- 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

[FAQ](#)[NARGIZ](#)[DOCUMENTS](#)[LOGOUT](#)[NEW FOLDER...](#)[RENAME FOLDER...](#)[NEW DIAGRAM...](#)[IMPORT...](#)[ORGANIZE...](#)[Diagrams](#)[Trash](#)[Dig1](#)[Relational Schema](#)

4 hours ago

[Dig1](#)[ER Diagram](#)

3 hours ago

[example](#)[ER Diagram](#)

5 minutes ago

[example](#)[Relational Schema](#)[Open ...](#)[Rename ...](#)[Move to Trash](#)[Copy](#)[Export](#)[Convert to Relational Schema](#)[Generate SQL](#)

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