

ER Diagram Editor User Manual

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Getting started

Visit the URL <http://gisonrg.github.io/ER-diagram-editor/> to get started.

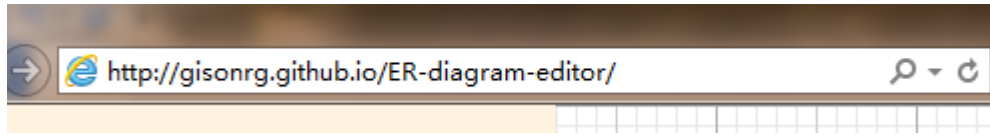


Figure 1-1

Here is the workspace of the editor.

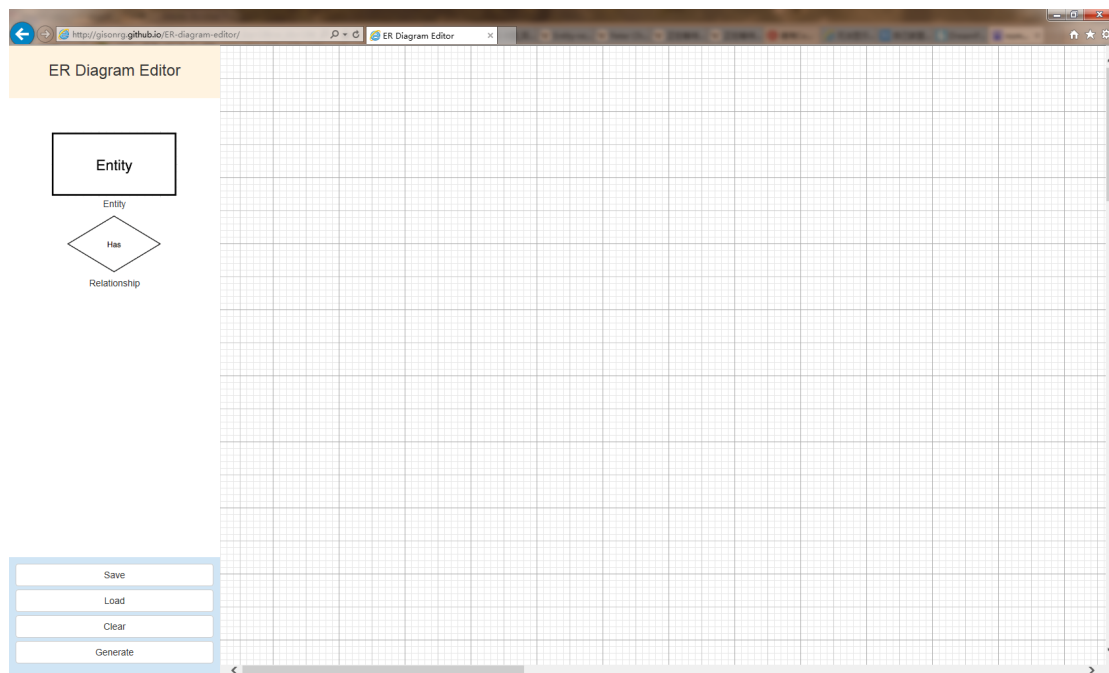


Figure 1-2

Entity

Add an Entity:

- 1) Drag the **Entity** icon from the toolbar to the blueprint paper on the right.

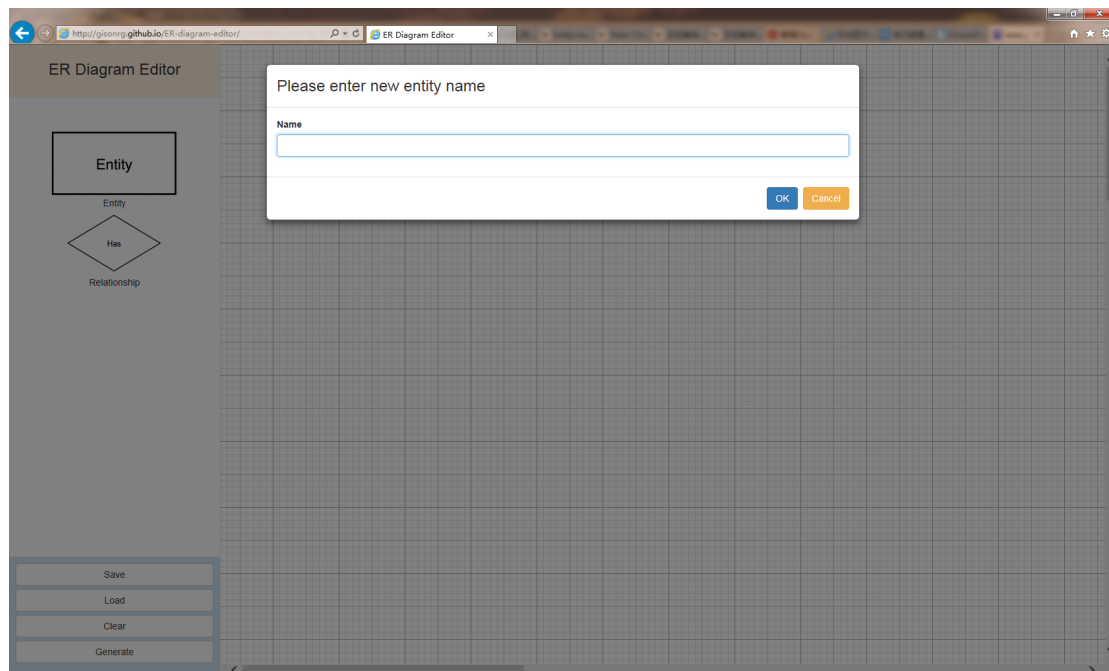


Figure 2-1

- 2) Enter the **Name** of the entity.
- 3) Click **OK** to finish.

Rename an Entity:

- 1) Right click on the target entity to show the menu.

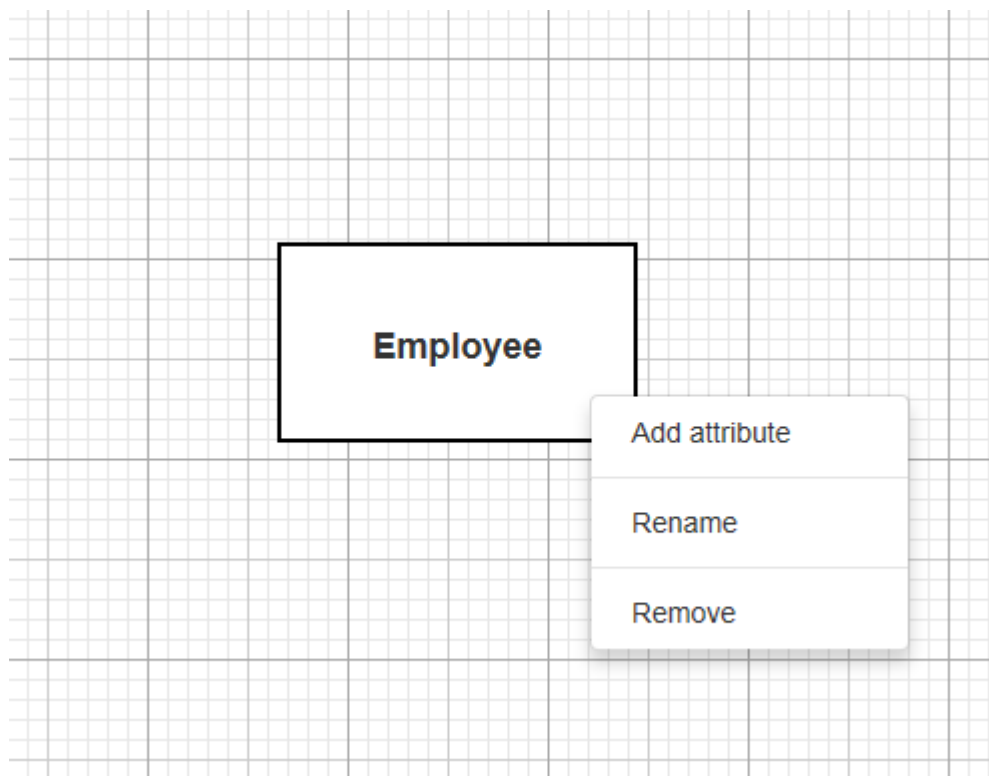


Figure 2-2

- 2) Click **Rename**.
- 3) Enter the new **Name** of the entity.

Please enter new entity name

Name

Employee

OK Cancel

Employee

Figure 2-3

- 4) Click **OK** to finish.

Remove an Entity:

- 1) Right click on the target entity to show the menu.
- 2) Click **Remove** to delete the entity.

Add an Attribute for an Entity:

- 1) Right click on the target entity to show the menu.
- 2) Click **Add attribute**.
- 3) Enter the **Attribute name**.

Create new attribute

Attribute name

Type INTEGER

☐ Not null

☐ Primary Key

OK Cancel

Employee

Figure 2-4

- 4) Select the **Type** of the attribute. (Note: a length value is needed for Type VARCHAR)

Type VARCHAR

Length

128

Figure 2-5

- 5) Check the options to declare whether this attribute is **Not Null** or **Primary Key**. (Note: if the Primary Key option is selected, the Not Null option is required)
- 6) Click **OK** to finish.

Edit an Attribute of an Entity:

- 1) Right click on the target attribute of the entity to show the menu.

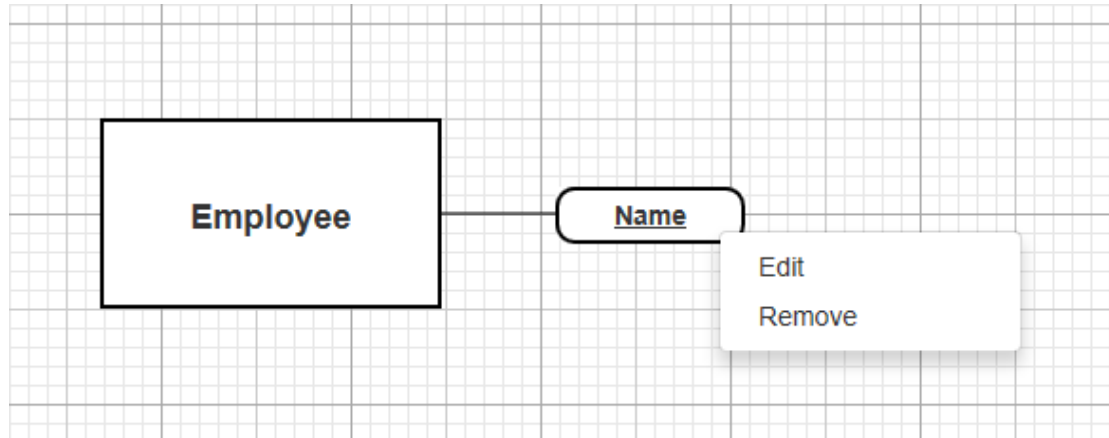


Figure2-6

- 2) Click **Edit** to show the edit window.

The 'Edit attribute' dialog box is shown. It contains the following fields and options:

- Attribute name:** A text box containing 'Name'.
- Type:** A dropdown menu showing 'VARCHAR'.
- Length:** A text box containing '128'.
- Not null:** A checked checkbox.
- Primary Key:** A checked checkbox.
- Buttons:** 'OK' (blue) and 'Cancel' (orange) buttons at the bottom right.

Below the dialog box, the original diagram from Figure 2-6 is visible, showing the 'Employee' entity and the 'Name' attribute.

Figure 2-7

- 3) Change the attribute parameters as needed.
- 4) Click **OK** to finish.

Remove an Attribute of an Entity:

- 1) Right click on the target attribute of the entity to show the menu.
- 2) Click **Remove** to delete an attribute of the entity.

Relationship

Add a Relationship:

- 1) Drag the **Relationship** icon from the toolbar to the blueprint paper on the right.

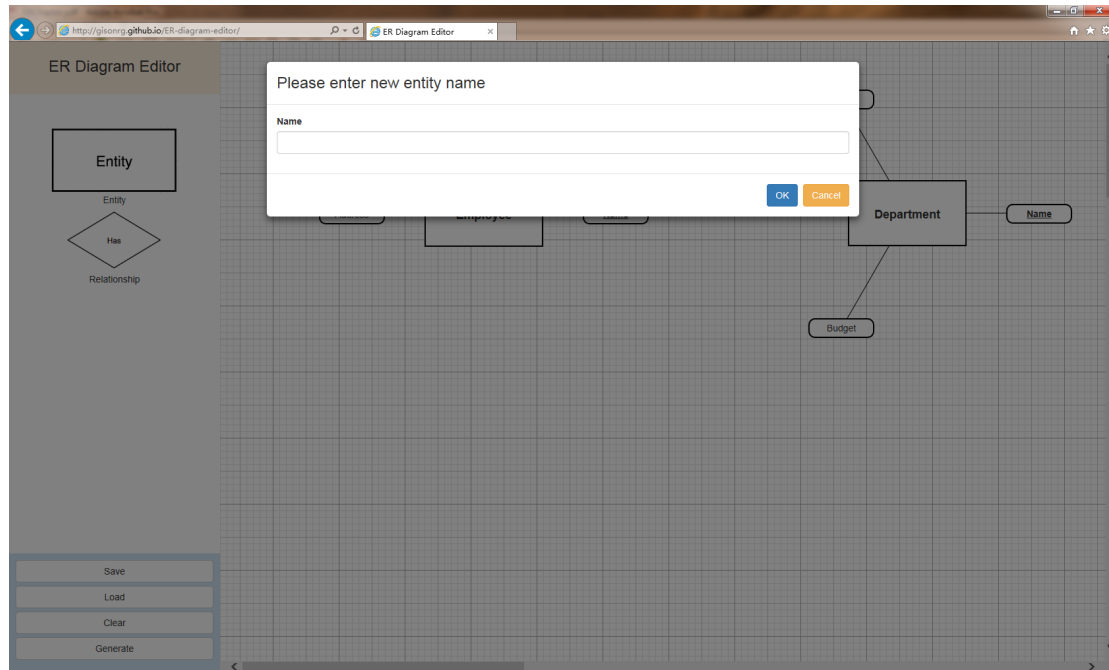


Figure 3-1

- 2) Enter the name of the relationship.
- 3) Click **OK** to finish.

Rename a Relationship:

- 1) Right click on the target relationship to show the menu.

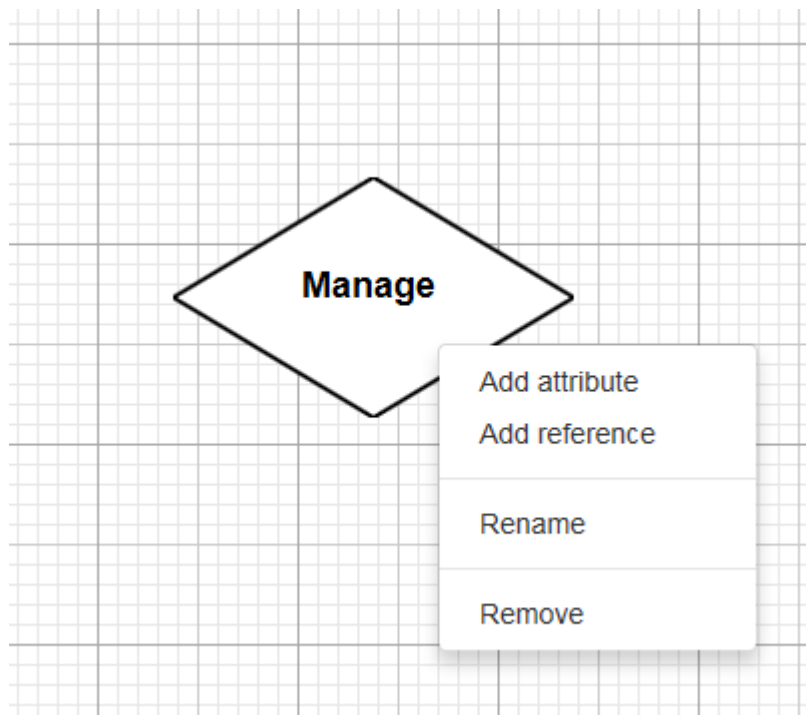


Figure 3-2

- 2) Click **Rename**.

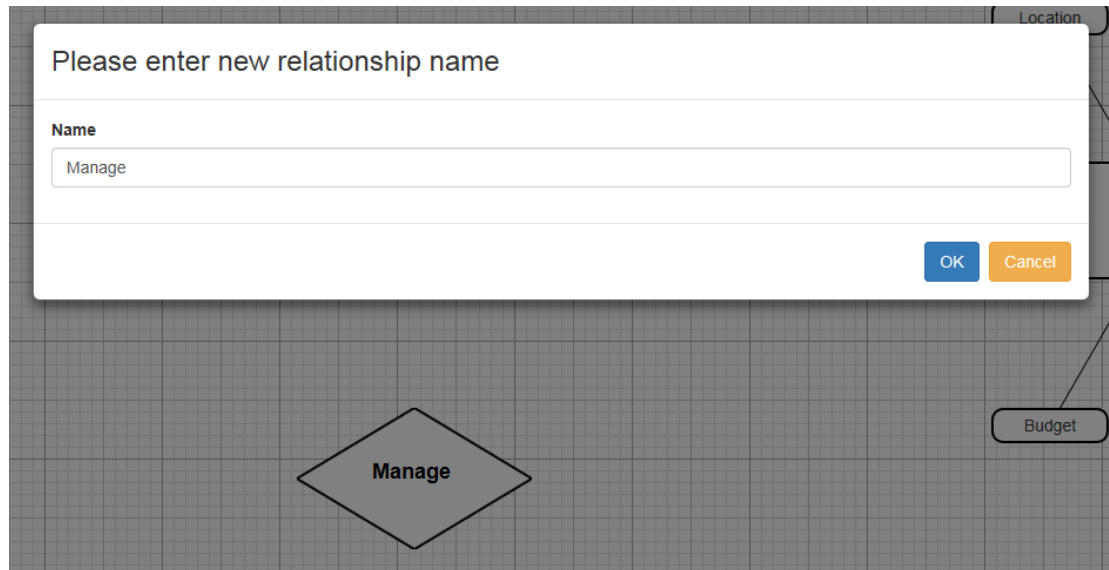


Figure 3-3

- 3) Enter the new **Name** of the relationship.
- 4) Click **OK** to finish.

Remove a Relationship:

- 1) Right click on the target relationship to show the menu.
- 2) Click **Remove** to delete a relationship.

Add an Attribute for a Relationship:

- 1) Right click on the target relationship to show the menu.
- 2) Click **Add attribute**.

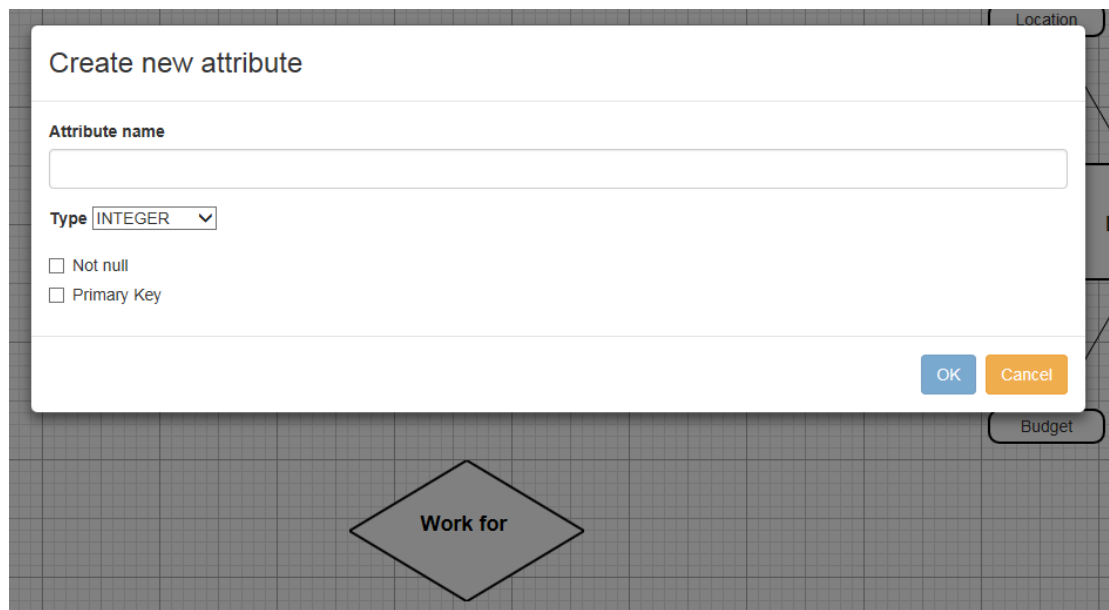


Figure 3-4

- 3) Enter the **Attribute name**.
- 4) Select the **Type** of the attribute. (Note: a length value is needed for Type VARCHAR)
- 5) Check the options to declare whether this attribute is **Not Null** or part of a **Primary Key**. (Note:

if the Primary Key option is selected, the Not Null option is required)

6) Click **OK** to finish.

Edit an Attribute of a Relationship:

1) Right click on the target attribute of the relationship to show the menu.

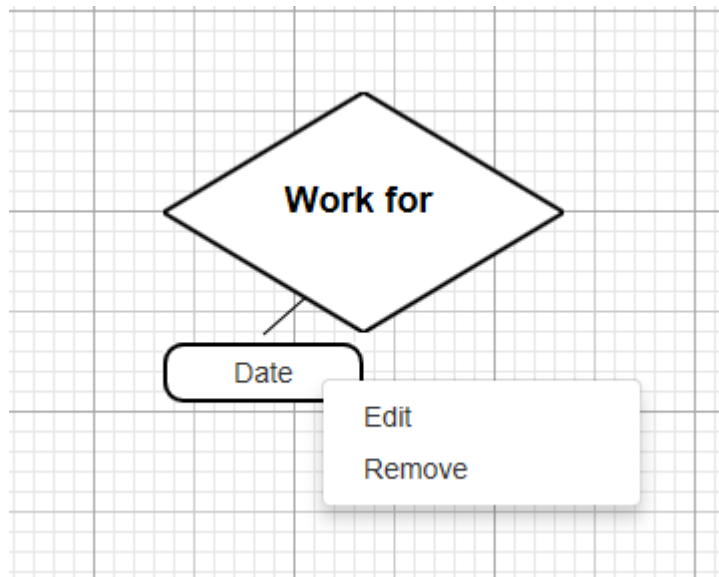


Figure 3-5

2) Click **Edit** to show the edit window.

The screenshot shows the 'Edit attribute' dialog box. The 'Attribute name' field contains 'Date'. The 'Type' dropdown is set to 'DATE'. There are two unchecked checkboxes: 'Not null' and 'Primary Key'. At the bottom right, there are 'OK' and 'Cancel' buttons. In the background, the 'Work for' relationship and 'Date' attribute are visible on a grid.

Figure 3-6

3) Change the attribute parameters as needed.

4) Click **OK** to finish.

Remove an Attribute of a Relationship:

1) Right click on the target attribute of the entity to show the menu.

2) Click **Remove** to delete an attribute of the entity.

Add a Reference for a Relationship:

- 1) Right click on the target relationship to show the menu.
- 2) Click **Add reference**.

The screenshot shows a 'Add new reference' dialog box overlaid on a database design canvas. The dialog has the following fields and options:

- Reference Entity:** A dropdown menu with 'Employee' selected.
- Reference Attribute:** A dropdown menu with 'Name' selected.
- Attribute name:** An empty text input field.
- Type:** A dropdown menu with 'VARCHAR' selected.
- Length:** A text input field with '128' entered.
- Primary Key:** A checkbox that is checked.
- Buttons:** 'OK' (blue) and 'Cancel' (orange) buttons at the bottom right.

In the background, a relationship diagram is visible. It features a diamond-shaped relationship labeled 'Work for' connected to an entity 'Date' (represented by a rounded rectangle).

Figure 3-7

- 3) Select **Reference Entity** and **Reference Attribute**.
- 4) Enter **Attribute name**.
- 5) Check the **Primary Key** option if this attribute is part of the relationship's primary key.
- 6) Click **OK** to finish.
- 7) Repeat the process if the relationship refers multiple entities.

Edit a Reference of a Relationship:

- 1) Click the name of the relationship to check all references in this relationship.

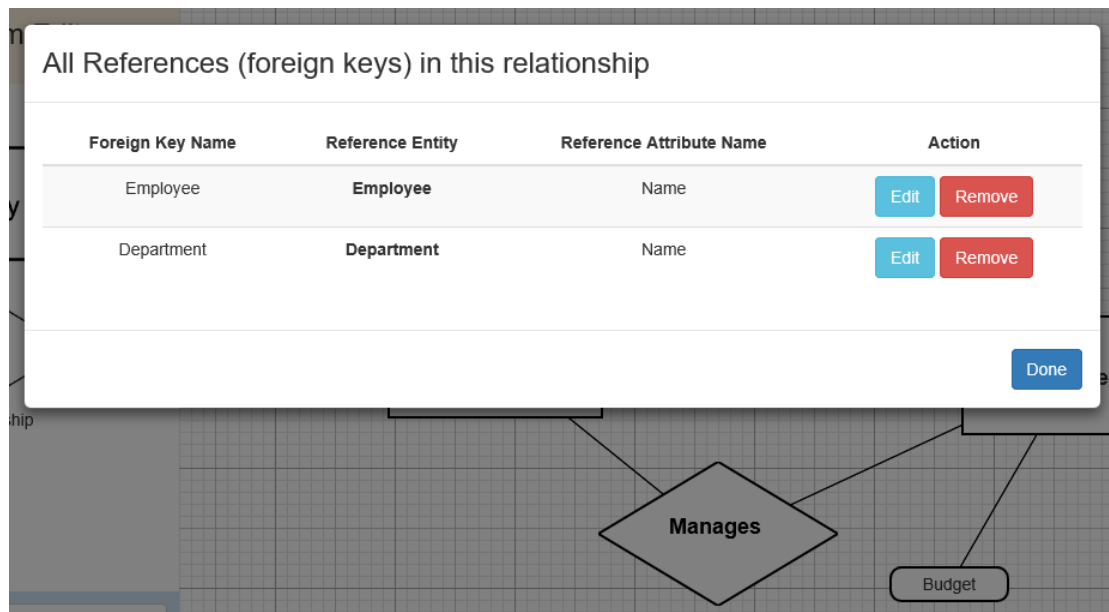


Figure 3-8

- 2) Click **Edit** to show the edit window.

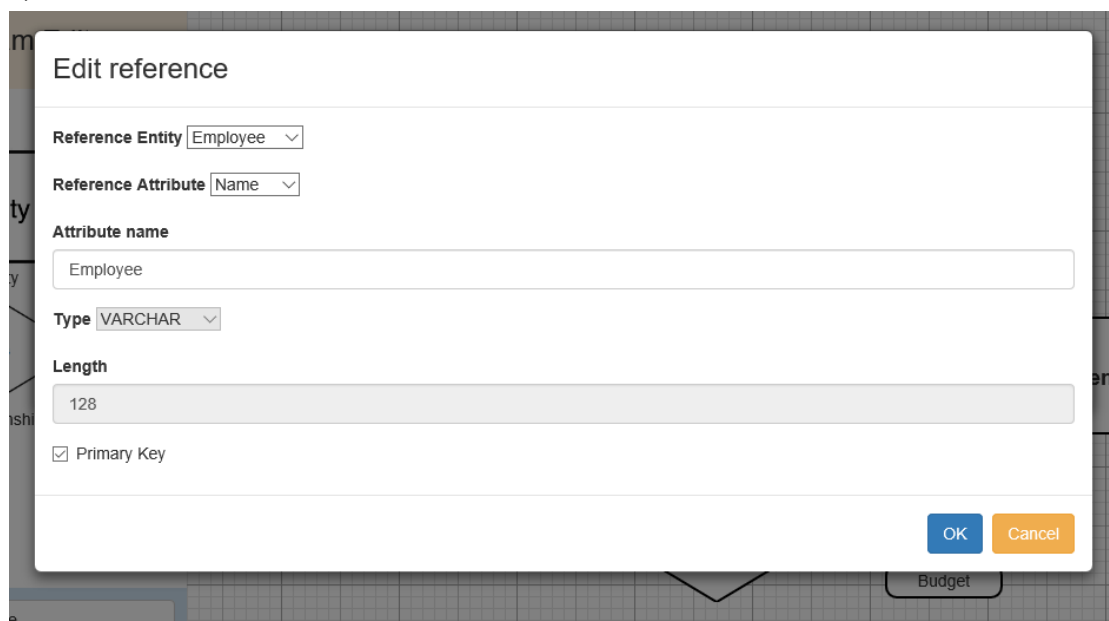


Figure 3-9

- 3) Change the reference parameters as needed.
- 4) Click **OK** to finish.

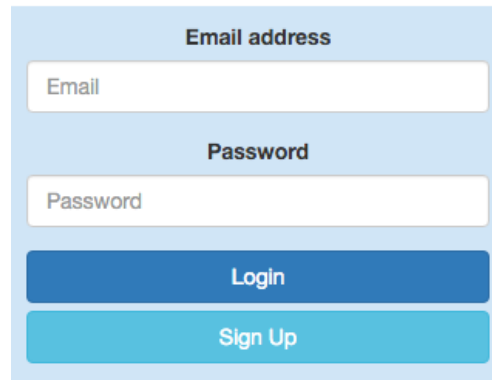
Remove a Reference of the Relationship:

- 1) Click the name of the relationship to check all references in this relationship.
- 2) Click **Remove** to delete a reference of the relationship.

General operations

User Login / Sign Up:

Enter your credentials in the form, and click **Login** or **Sign Up** button.

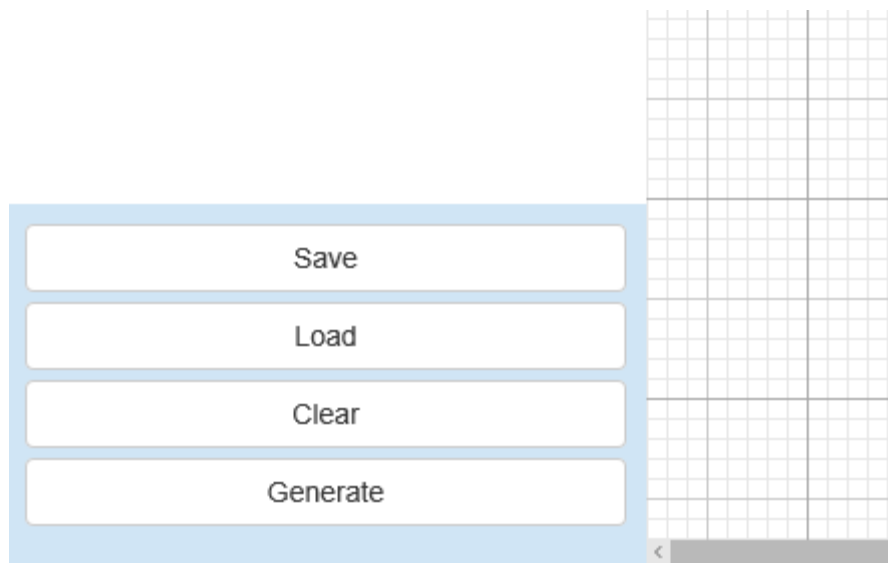


A login and sign-up form with a light blue background. It contains two input fields: 'Email address' and 'Password'. Below the fields are two buttons: 'Login' (dark blue) and 'Sign Up' (light blue).

Figure 4-1

Save a Diagram Online:

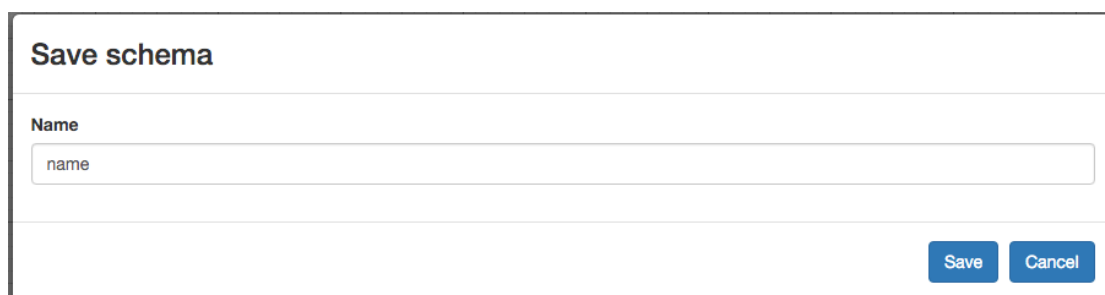
Click **Save** button on the bottom of the toolbar.



A toolbar with four buttons: 'Save', 'Load', 'Clear', and 'Generate'. The buttons are white with a light blue border. To the right of the toolbar is a grid area, and below it is a scroll bar.

Figure 4-2

Enter the name of your current saving schema, and click **Save** button.



A dialog box titled 'Save schema'. It has a 'Name' label and a text input field containing the word 'name'. At the bottom right are two buttons: 'Save' and 'Cancel'.

Figure 4-3

Load saved Diagram:

Click **Load** button bottom of the toolbar to recover the saved diagram.



Figure 4-4

Choose the saved schemas you want, and click the **Load** button.

Clear the Diagram:

Click **Clear** button on bottom of the toolbar.

Generate JSON Schema:

1) Click **Generate** button on bottom of the toolbar.

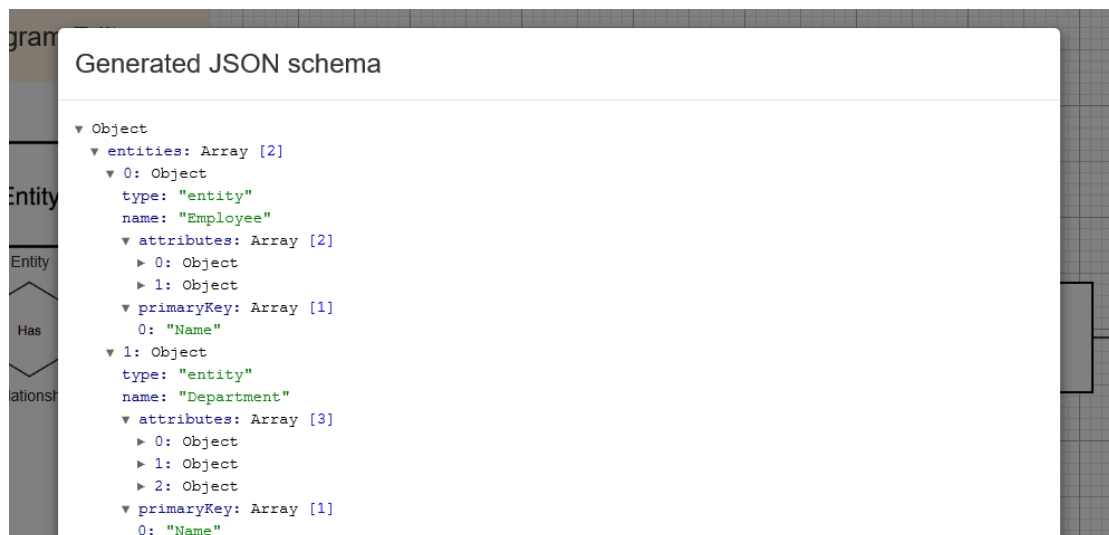


Figure 4-5

2) Click **Export** to download.



Figure4-6