



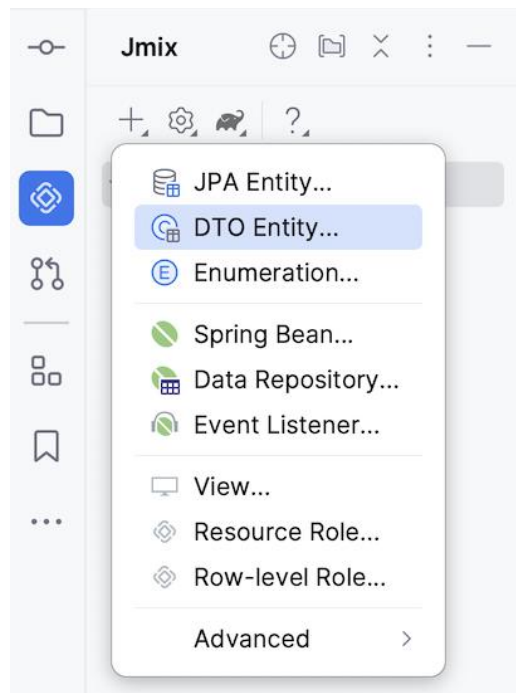
Prerequisites

Project Statistics View

Step 1: Create ProjectStats DTO entity

This entity is to hold metrics in statistics. We get these metrics by fetching data from other entities in the data model. In other words, we are creating a representation of the data that's already there, reusing it. That's one of the uses of DTOs.

1. Click + -> **DTO Entity** and name it "ProjectStats".



2. Use Entity Designer to define the following attributes:

Attribute name	Type
projectName	String
tasksCount	Integer
plannedEfforts	Integer
actualEfforts	Integer

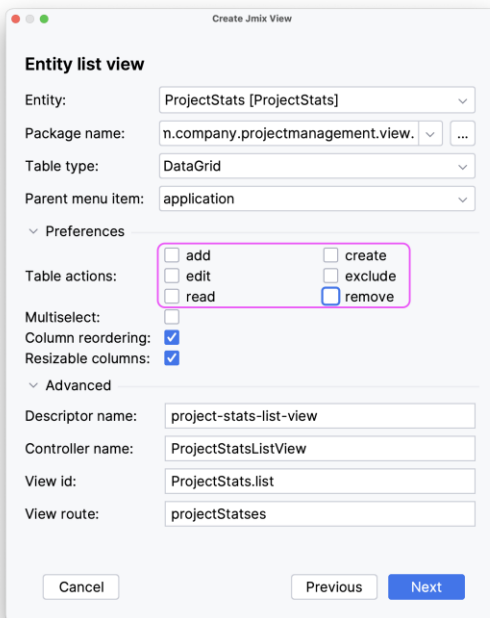
3. Remove the **@JmixGeneratedValue** annotation added to the DTO class.
The statistics ID will match the ID of the project it corresponds to, so this annotation is redundant.

Step 2: Create a view to display statistics

1. Click + -> **View** and select **DTO Entity list view**.



2. Remove the table actions in the wizard.



These actions are redundant – statistics can be collected, but not edited manually.

3. For the dataGrid component, remove the column for the `id` attribute. That's remove the following line: `<column property="id"/>`.

This is system information. There's no need to include it in the statistics.

Step 3: Add some data to your application

Before we get started, run your application and add some data. That'll make the lesson a bit more visual. You'll need at least a project, a task, and a time entry.

To add them, use the **Create** button on the relevant view.

