Database – Data Model

Task:

How is the data model of the database structured?

Realization:

The entity–relationship model below shows the structure of the database which is divided into multiple parts, each one holding other specific information for supporting the execution of PCM scenarios. The chosen colours in the model serve as a mean of differentiating these parts, as visualized in the following legend:

- **PCM Meta Model** – representation of all PCM scenarios
- **Instance View** – information about running and terminated scenario instances
- **History** – statistics of the evolution of scenario instances
- **Configuration** – necessary configuration that need to be made for executing an instance
- **User Management** – handling roles, users, rights etc.

All necessary information including the dependencies between the entities can be deduced from the model. Only the representation of those components concerning data objects requires larger complexity and understanding.

One DataNode is exactly the modelled node as depicted in a fragment of the ProcessEditor. All DataNodes with the same name are summarized to one DataObject which then again is a representation of a DataClass.

For more detailed information about the structure of the database, we refer to the bachelor theses of Jaspar Mang and Juliane Imme.