Discovering Analytical Concepts from User Profiles

**Doctoral Project Plan**

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**The Vision:** A dedicated BI subsystem for user assistance purposes in the context of BI 2.0 systems

**The Goal:** The definition of metadata needed to support user assistance functionalities

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**Assistance Process**

- **INPUT**
  - Query
  - Characteristic
  - Preference

- **PARADIGM**
  - Syntax
  - Feature

- **SCOPE**
  - System
  - Data
  - User

- **GOAL**
  - Collaborative Visualization
  - Content Assistance

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**Analytical Metadata Framework:** Based on the findings of a survey, we propose analytical metadata framework to support the user assistance activities and their automation in the context of next generation BI systems:

- We describe the additional process of the user-system interaction so that the system also supports the user during the interaction
- We identify the metadata artifacts to be gathered, modeled, and processed to enable the automation of user assistance activities
- We categorize the metadata artifacts to support the user assistance and their processing to enable automation

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**Current Step:** Definition of a Semantic Metamodel of Analytical Metadata

**The Metamodel**

**Examples of Metamodel Instances**

**Next Steps:** Incremental implementation and exploitation of Analytical Metadata Repository

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**Further reading:**