XBRL report vs. RDBMS

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Summary

- Introduction.
- Architecture.
- Extraction of Metadata.
- Population.
- Queries & transformation.
- Conclusions.
Introduction

- The XBRL reports entail that a large number of companies, economic and financial institutions have to spend a large amount of resources in Information Technology (IT).
- Mapping between XBRL data model and the Relational data model.
- Simplification of the XBRL language.
- As example, we use a XBRL instance document of FINREP 2012 draft (2011-06-12).
Architecture

- Extraction of the metadata.
- Population of the database.
- PoC domain.
  - Arelle (core).
  - MS SQL Server 2008 R2.
  - Visual Basic Script.
  - Transact-SQL (T-SQL).
  - Excel.
  - Windows 7.
Extraction of Metadata

- XBRL Standard
- Arelle
- Process
- Taxonomies

RDBMS XBRL Metadata
Extraction of Metadata

- Creation of the database.
- Creation of the data model.
- Load data model.
- Queries.
Extraction of Metadata

DEMO
Population of Database

- XBRL Standard
- Population
- RDBMS XBRL Metadata
- RDBMS XBRL Facts
- XBRL Instance Documents
Population of Database

- XBRL instance document.
- Process of population.
- Queries.
Population of Database

DEMO
Queries and transformations
Queries & Transformation

- Transformation.
- Database ➔ Excel
- Queries
Queries & Transformation

DEMO
Conclusion

- General processes.
- Low cost.
- Easy transformation to other platforms.
- Future:
  - Any taxonomy.
  - Automatic generation of a map between XBRL data model and Relational Model.
  - N reports, N taxonomies.
XBRL report vs. RDBMS

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