REVER
datasheet

Rever DB-Main

Modelling

Model your database or schemas.

Development

Develop your modelling tools.

Engineering

Support to your engineering and reverse engineering activities.

The story so far

Rever DB-Main was first created in 1991 as a research & development and technological transfer project by the LIBD (Laboratory of Database Engineering at Namur University). The software has since been widely extended. Since January of 2004, Rever DB-Main is developed and distributed by REVER where several developers from day one continue to improve it.

Rever DB-Main is based on ORGA, the very first workshop released in 1986. It's the result of many years of research and new studies are still in progress. Several theses and research projects carried out at the University of Namur were based on DB-Main. All helped to improve the core of the tool and its extensions.

Rever DB-Main for professionals

The tool is primarly designed for the **data architect community**.

The specific requirements of large, complex, multi-paradigm schemas processing have been carefully evaluated, including extensive field-testing.

Some processors include very specific knowledge on how to solve such problems as finding hidden foreign keys, finding data flows across programs or generating DDL scripts that preserve the complex semantics of the conceptual schema.

The meta development add-ons are **specially designed for method engineers, project leaders and database administrators**.

Rever DB-Main for education and research

Rever DB-Main allows students to build large (but size-limited) schemas. The software requires very few resources, which helps explain why it's used in many schools and universities worldwide.

Teachers can use Rever DB-Main at three levels :

1. Introductory : Its natural and intuitive graphical interface makes it a basic graphical schema editor and code generator. It's well suited for teaching novice students the concepts of database modelling and design. The *First steps* tutorial (First steps from Help menu inside Rever DB-Main) is especially conceived for this type of students (duration : 1 hour).
2. Standard : More advanced features, such as simple transformations and the elementary Global Transformation Assistant, can be integrated into standard database design courses. The 12-part tutorial named Introduction to Database Design can be part of the subject of such a course.
3. Advanced : The Rever DB-Main components can be used to support advanced courses on database evolution, maintenance, migration, integration, reverse engineering and reengineering.

If you are a student or teacher in an I.T. school and would like to know more about Rever DB-Main, we kindly inform you that we offer an academic program in order to best meet your needs.

Our software has a long history of working with the academic community since it was first released and is widely used in the fields of research and database engineering, supporting students and professionals for more than 20 years.

Features

The main features of Rever DB-Main are :

1. Specification management :
   - No restriction on maximum size of projects that can be saved ;
   - Extended project history view ;
   - Extended ER schemas, UML class diagrams, UML activity diagrams, UML use case diagrams ;
   - A range of graphical and textual schema displays ;
   - Definition of views to show sub-schemas ;
   - Full edition of schemas ;
   - Schema printing ;
   - Reporting ;
   - Schema transformation ;
   - Log of schema transformations.
2. Assistants :
   - Schema analysis assistant, schema transformation assistant (advanced), schema integration assistant, text analysis assistant and referential key search assistant ;
   - Automatic transformation to relational model ;
   - Name processing.
3. Methodological environment :
   - Methodological engine (use of methodologies).
4. Development environment :
   - Use of Java programs ;
   - Meta-properties to extend definition of schema components ;
   - User tool palettes.
5. Code generation :
   - Standard SQL (SQL92) generation, Access generation, Firebird generation, MySQL generation, PostgreSQL generation.
6. Code extraction :
   - SQL and ODBC extraction.

7. Other plugins (Java) :

- Mapping assistant ;
- Docbook generation ;
- JDBC extraction ;
- SQL/92 generation ;
- Statistic generation.

Applications

▪ Developed in C++ with the wxWidgets graphics library

▪ Available under Windows (95, 98, Me, NT, 2000, XP, Vista, 7, 8 and 10) and Linux

▪ Includes a JIDBM library to develop your own JAVA modules

Available services

▪ Rever DB-Main is ready-to-download (no limit of objects and features)

▪ Free 30-day licence

▪ Professional plug-ins (COBOL, IMS, RPG, IDS/II, PL/I, XML...)

▪ Technical support

Technology overview

Rever DB-Main contains several JAVA plug-ins :

- A DocBook generator ("plugins\docbook" directory) to produce under XML format (specific to technical documentations) the content of the Rever DB-Main repository. Free tools can transform the DocBook files into e.g. HTML, Help HTML, PDF files.
- A mapping assistant ("plugins\mapping" directory) manages the mapping between objects of different schemas.
- A JDBC extractor ("plugins\jdbc" directory) extracts relational database structures through a JDBC driver.
- A SQL/92 generator ("plugins\sql" directory) generates a SQL creation database structure script following the SQL/92 standard. The programmer can easily modify the source code to satisfy their own requirements.
- A statistic generator ("plugins\statistic" directory) gives statistics about current schema (number of entities, attributes...). The programmer can easily modify the source code to satisfy their own requirements.

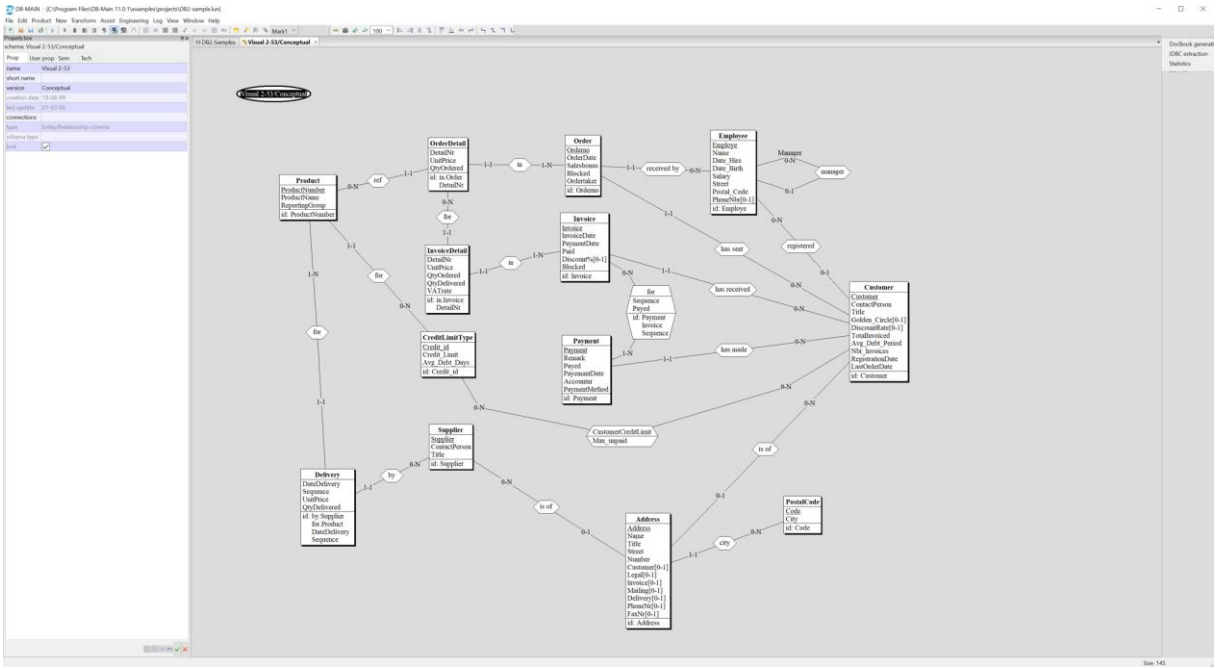

Figure 1 Entity/Relationship schema

Why Rever DB-Main ?

Learn more about Rever DB-Main

More information

Contact us : info@rever.eu

Interested by a group licence (for schools and enterprises) ?

Get in touch for a tailor-made, no-obligation offer.

Excellence in information management drives your business

Founded in 2004, Rever is a software publisher, spin-off of the Database Engineering Lab of the University of Namur.

Rever's **automated and standardised reverse engineering technologies** help meet the digital trust challenge by providing organisations with the most advanced methods and tools in data and information management and governance.

At the core of Rever's DNA is our deep rooted belief that **excellence in information management drives business**. By creating a unified view, our technology allows you to identify, master, optimise and protect data, unlocking the true value of your enterprise's information.

www.rever.eu

+32 2 740 43 50

info@rever.eu

Rue des Pères Blancs, 4

1040 Brussels - Belgium