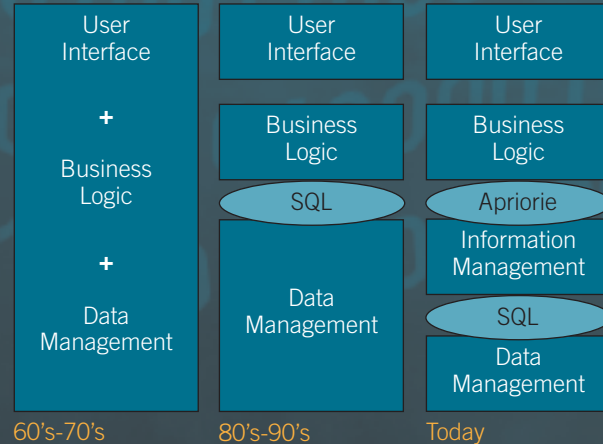
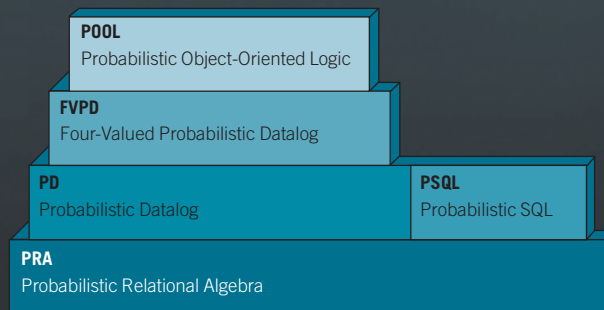


Where does Apriorie fit in the IT landscape?

Apriorie technology works at the interfaces between business applications, information and data management. The move from monolithic IT solutions to independent layers for business logic and data management is further developed by Apriorie, adding an independent layer for information, uncertainty, relevance and preference management. This improves productivity and innovation in modern IT landscapes.



Inside Apriorie



Apriorie combines the best of the database and information technology worlds. Through probabilistic extensions and new concepts in SQL (such as logical implication, probability assumption and evidence key), it enables advanced, highly flexible and efficient searches of heterogeneous information sources.

About Apriorie

Apriorie stands for Advanced Probabilistic InfOrmation RetriEval and also for Adding PRIORitiEs to information management.

Apriorie is the result of ten years innovative research in the area of integrated database and information retrieval technology. Its roots are at the University of Dortmund, where an early prototype known as HySpirit was developed. After continuous and new developments since 2000, Apriorie now offers a large-scale and highly flexible software environment for building information management solutions.

What is it for?

Apriorie gives you powerful control over your data, enables you to harness information to its full potential and gain knowledge from uncertain or even inconsistent sources.

Use Apriorie to solve information management tasks, which are currently expensive or even infeasible, or, where current search technology reaches its limit. With Apriorie you can build highly flexible and evolving solutions for finding:

- **HELPFUL** experts on sailing boats
- **PROMISING** companies with expected dividend increase
- **EXCELLENT** applicants for a job
- **CRITICAL** projects that require attention
- **IMPORTANT** customers to notify.

What Apriorie offers

- State-of-the-art, customisable information management systems for heterogeneous data sources
- Integrated SQL, Text, XML, and logic-based information management
- Advanced search strategies in probabilistic SQL
- Relevance-based evaluation of SQL and other query languages
- Fact and knowledge retrieval
- Support for retrieval strategies based on spatial, temporal or semantic relationships
- Scalable architecture supported by highly efficient stream-based processing.

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Apriorie
Information Management

Exploring
and mastering
information

Struggling with the information overload? Problems with integrating heterogeneous data sources? Keep control and gain advantage with **Apriorie's** large-scale probabilistic SQL engine and its genuine integration with text and XML.

Apriorie offers cutting-edge, patented technology for building advanced information management and search systems.

Apriorie puts you in control of your data, enabling you to express and evolve search strategies.



 **Queen Mary**
University of London

Apriorie: Exploring and mastering information

■ **Apriorie** offers cutting-edge, patented technology for building advanced information management and search systems.

■ **Apriorie** enables customers to express and evolve their ranking strategies.

■ **Apriorie** integrates SQL, text, XML, and uncertain reasoning among heterogeneous knowledge sources.

■ **Apriorie** is for search applications what SAP is for business applications: a modeling platform.

■ **Apriorie** provides solutions for search tasks that involve customised or even task specific data integration and result ranking.

FVPD: Four-Valued Probabilistic

Datalog

- Incomplete (unknown) and inconsistent (contradicting) knowledge
- Combination of positive and negative evidence
- Uncertain reasoning

PRA: Probabilistic Relational Algebra

- Database models and interfaces
- Incremental processing
- High-speed probabilistic index structures

POOL: Probabilistic Object Oriented Logic

- Knowledge augmentation
- Classification and relationships and structure

PSQL: Probabilistic SQL

- Information theoretic probability estimations
- Integration of XML, text and SQL

Customisable ranking strategies

Fast prototyping of complex search systems

Natural language processing

Free-text SQL querying

Relational (SQL) databases

XML and full-text retrieval

Metadata retrieval

User profiles

Fact and knowledge retrieval

Taxonomy management

Law Enforcement

Business Intelligence and Customer Management