Informationssystem OBJEKT
Dynamic object- and mediaadministration

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The slogan „the individual standard" means new dimensions in flexibility, dynamics and speed of archiving software. Statements like individual standard and structured data storage of unstructured data do not contradict each other. They apply to practical requirements, which are met by the Dem GmbH products.

Common client requirements

Together with software-, system- and database-specialists, storage managers, archivists, and scientists we created a list of features which apply to the practical demands. We collected those features regardless of system, server, data base, costs, and realisability:

- High speed (up to the terabyte range)
- Heterogenous server landscapes
- Investment security
- Dynamic field structures
- Maximum input
- Multimediality
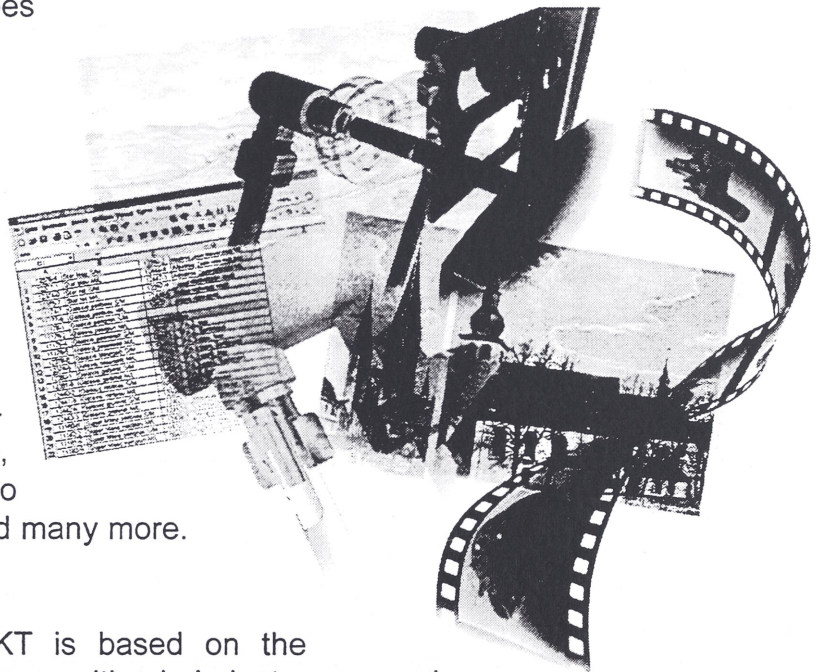- Extensibility
- Standardisation

These are the most important demands for modern database systems, in addition to the standard demands like field choice, creation of reports, connection to a modern Office environment and many more.

Basics

The Informationssystem OBJEKT is based on the Oracle database. Oracle has a key position in industry, research, and science. This means that our clients get a reliable partner in connection with a high level of investment security. Oracle is the simple answer to the question of server and system.

Oracle is compatible with most of the modern server- and operating systems.

We use C/C++ and JAVA instead of the classic Oracle tools in order to achieve maximum flexibility. Sub-suppliers keeping the latest state of engineering are important partners which guarantee the further usage, development, and updating of programs in the future.

Retrieval

The speed of retrieval is dependent on the structure of a query and the amount of fields and field types held by a query. In addition, there is the problem that retrievals often are restricted. There is a need for new developments and one of them is RSM.

Reduced Storage Management is a kernel enabling quick data access. Especially complicated queries (joins) will run much faster. RSM has especially been developed by DEM GmbH. It hasn´t been developed to replace, by-pass, or modify SQL but as a background feature. Standard data access is not influenced.

Advantages

The Informationssystem OBJEKT features several advantages:

- Individual solutions can be created within a short time by using standard software. For this reason Informationssystem OBJEKT means: individual standard!
- Modular construction gives the the user the possibility to use only those parts of Informationssystem OBJEKT, which he actually needs.
- Informationssystem OBJEKT contains security-features on both system and user level. Single users can be given access by passwords.
- Logical user-guidance with clear and easy to survey screen layouts according to the Microsoft-standards helps the user to deal with very complex data amounts.
- Retrieval results including results from the search for roots, fussy, and phonetics within data sets are displayed by a high-lighting-feature.
- Retrieval of the contents of structered and unstructured fields of an application is possible at the same time.
- Open interfaces enable the utmost flexibility in connecting to other programs (e.g. Microsoft Office, DMS GIS).
- Very complex queries are performed without any delay with assistance of the kernel Reduced Storage Management
- Informationssystem OBJEKT is multilingual.
- The consideration of internationally acknowledged standards guarantees the long term benefit of our technology: ORACLE data base, C/C++ and JAVA development environment, and Microsoft / ORACLE standard libraries.

Informationssystem OBJEKT contains the following features:

- personal administration with dynamic distribution
- multimedia archive for the inventory for various data
  (e.g. sound, pictures, 3D, Office data)
- object-stocking for the administration of archive goods and monuments
- literature administration (starts december ´99) for books, journals etc. with dynamic registration structures

All applications are able to refer to each other in every considerable way.

In operation for:
fields of
- archeological preservation of historical monuments
- inventory for art and monuments
- preservation of architectural monuments
- collections
- folkloral archives
- industrial archives