DBMaker

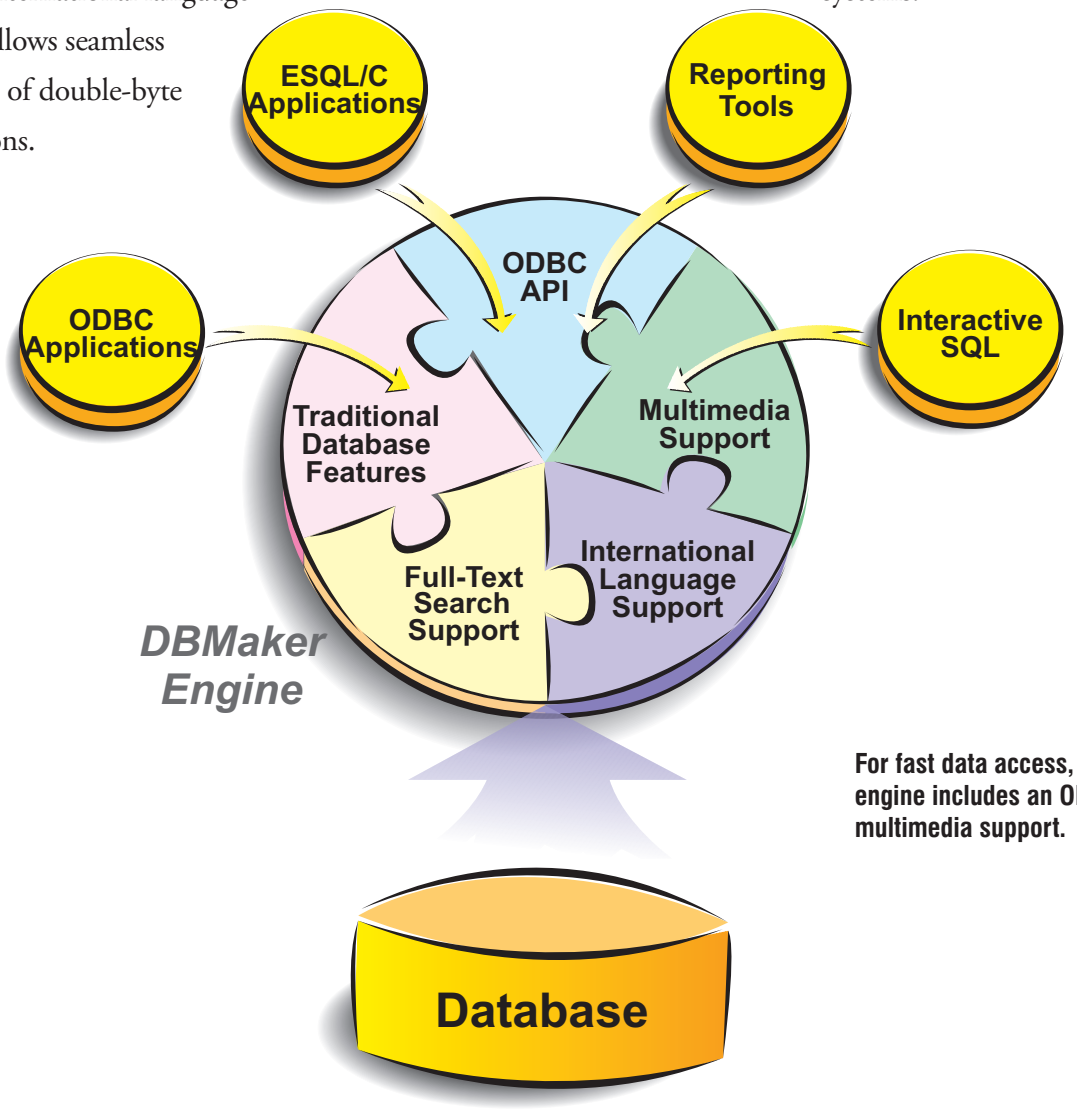
DBMaker meets the challenge--a low-cost, feature-rich SQL Database Management System.

DBMaker® is an SQL Database Management System built around a tightly integrated, modern database engine. Designed from the ground up for today's data management needs, DBMaker is not burdened by the limitations of earlier SQL engines. As a result it seamlessly blends a wealth of advanced features with a full complement of traditional database functions, providing unmatched flexibility and power. With a native ODBC interface, multimedia capabilities, large database features, and cross-platform support, DBMaker integrates multimedia and traditional database functions in an affordable, easy-to-use package.

High-Performance Database Engine

Designed from the ground up to offer high-speed performance, DBMaker is a perfect match for developers looking to build fast, compact applications. This performance is possible thanks to the integration of a native ODBC API, multimedia handling, and efficient data access routines. Since the ODBC API and multimedia handling are built right into the engine, applications have direct access to conventional and multimedia data--without the need for extra layers of software. For users of languages such as Chinese and Japanese, built-in international language support allows seamless execution of double-byte applications.

To optimize speed and concurrency on data accessed by multiple users, DBMaker dynamically adjusts between table, page, and row locking levels. The automatic cost-based query optimizer means query results are returned in the shortest possible time. The use of multiple journal files also increases access speed, improves the efficiency of disk space usage, and drastically cuts the time required for incremental backups. In addition to these features, DBMaker uses multi-threading where possible for improved performance on SMP systems.

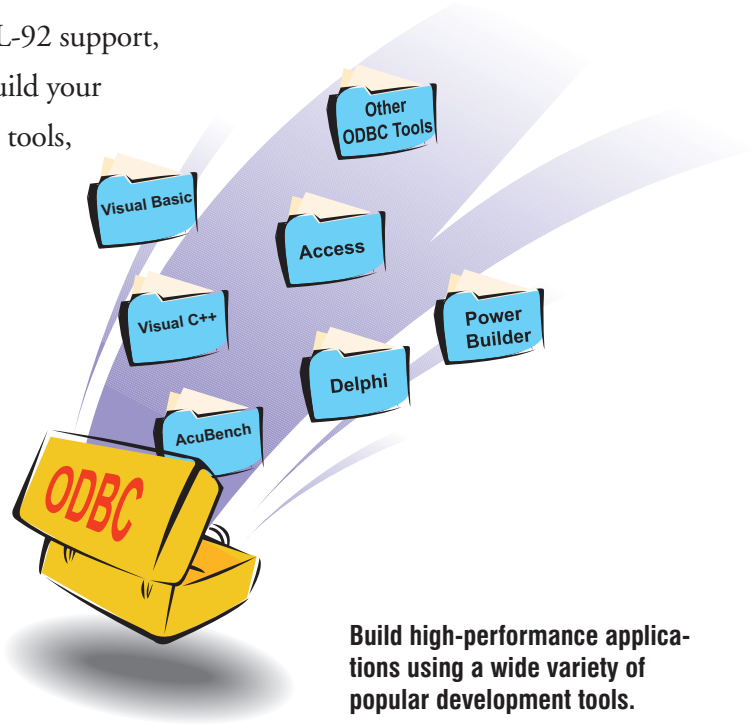


For fast data access, the database engine includes an ODBC API and multimedia support.

Open Interface

Using the native ODBC interface and ANSI SQL-92 support, you can quickly create high-performance applications. Build your applications using a wide variety of popular development tools, including Visual C++, Visual Basic, Delphi, and AcuBench. DBMaker lets you work with the tools you already have, and doesn't restrict you to a proprietary development environment.

The included ESQL/C preprocessor simplifies the development process for programs written using a traditional C development environment. Write your database application using the power of the high-level Embedded SQL query language, and the DBMaker preprocessor will automatically translate it to the appropriate ODBC function calls.

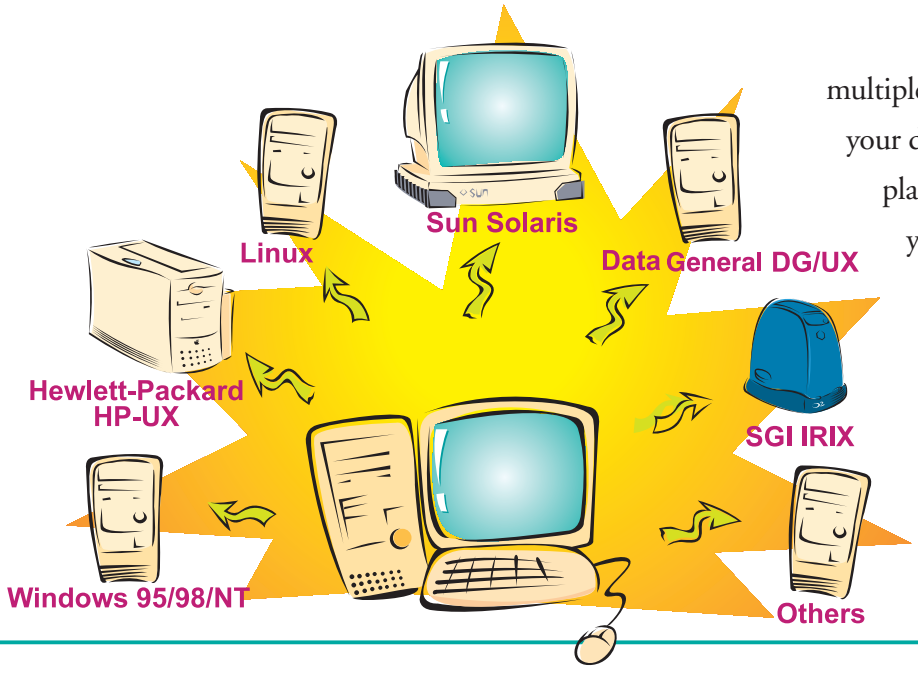


Build high-performance applications using a wide variety of popular development tools.

Portable and Scalable

Extensive cross-platform support and a unique open architecture mean you'll never outgrow DBMaker. You can deploy your database application across several platforms, and easily move to larger systems as your needs grow. Easily scale from a small single-user system on a notebook computer all the way to a large multi-user system distributed around the world. This can help reduce your costs by letting you use your existing hardware during development, and upgrading or expanding as your database grows.

DBMaker also allows you to develop for multiple platforms quickly and economically. Write your database code once, and you can use it on any platform supported by DBMaker. Simply rewrite your user interface for your target platform and your application is ready to run. You can also use a common code base to develop for cross-platform applications.



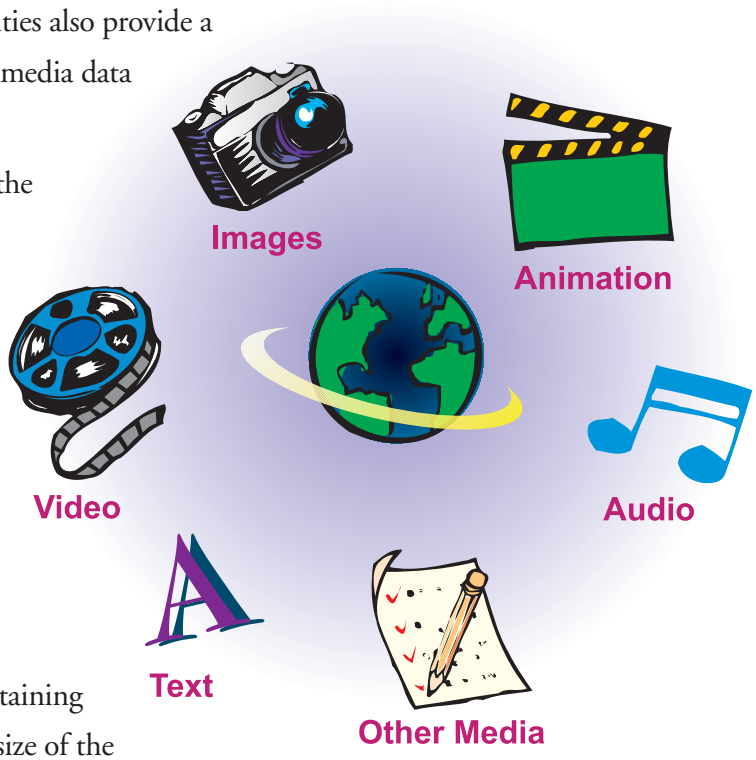
Easily develop your database applications for multiple platforms.

Extensive Multimedia Support

Powerful multimedia management capabilities built into the database engine allow you to efficiently store and manipulate large amounts of multimedia data including text, graphics, audio, video, and animations. The multimedia management capabilities also provide a great deal of flexibility, allowing you to store multimedia data in different ways depending on your needs.

You can store multimedia data directly in the database as Binary Large Objects (BLOBs). This data is protected by the full spectrum of security, reliability, and integrity features provided for conventional data types. In addition, you can store your multimedia data as File Objects, which allows third-party multimedia tools full access to your multimedia data while keeping it under database control.

Your tables can have as many multimedia columns as you wish, and the number of rows containing multimedia data is limited only by the maximum size of the table. You can easily locate any desired data item using DBMaker's powerful full-text searching and pattern matching. This lets you concentrate on building your application instead of locating your data.



Efficiently store and manipulate many kinds of multimedia data.

Extendable and Customizable

Easily extend and customize the capabilities of DBMaker using stored commands, stored procedures, triggers, and user-defined functions. This lets you integrate your business logic directly into the database engine, centralizing the logic in the database so it is easier to manage and maintain.

Modern Storage Management

Modern storage management facilities provide flexible data storage with simple management and configuration. There is no practical limit on the number of rows you can have in a table, or on the number of tables in a database. You can even spread a table over multiple disks! DBMaker also allows you to alter your table schema online, resulting in the ability to develop applications that can dynamically adjust to user needs.

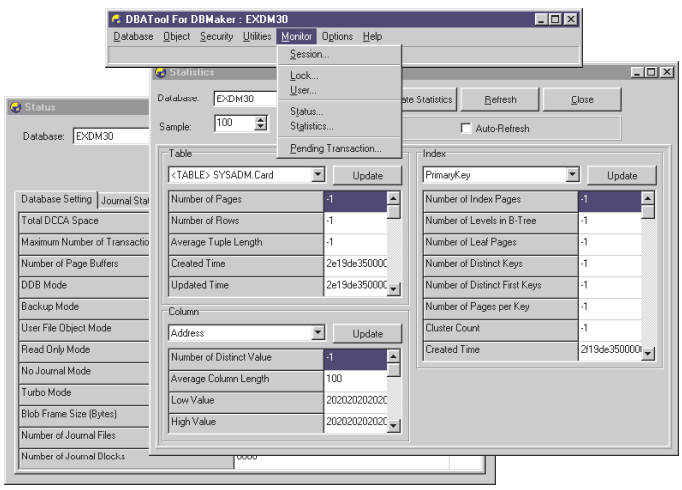
DBMaker can dynamically extend the storage space of your database, up to the limits of available disk space. You can also use fixed-size storage for greater control, and extend the storage space manually. On UNIX platforms, DBMaker supports raw devices, which lets you bypass the file system and write directly to the raw device for maximum performance.

Robust Database Features

In addition to cutting-edge database features, DBMaker also provides a full spectrum of traditional reliability, security, and integrity features. Your data will always be safe thanks to advanced data protection facilities, such as automatic crash recovery, database consistency checking, and automatic backups. These features ensure data consistency and safety in the event of operating system or disk failures. User- and group-level security, privilege management on tables or individual columns, and network encryption also keep your data secure. The integrity of your data is ensured by primary and foreign keys, full support for referential actions, together with domain, column, and table constraints.

Easy Installation and Management

The easy installation and setup lets you start using DBMaker minutes after opening the box, no matter which platform you are using. DBMaker includes versions for all supported platforms on a single CD-ROM, so there are no hidden costs when moving between platforms. Novice database users will appreciate the simple management features and graphical tools that are consistent across platforms. With DBMaker, performance and features do not come at the cost of size: DBMaker's compact size lets you use it almost anywhere.



DBMaker's GUI-based tools make database management simple.

DBMaker

Specifications

Multimedia Support

- Binary Large OBjects (BLOBs) and File Objects (FOs)
- Multiple BLOB and FO columns in a table
- File Objects can be edited with existing multimedia tools
- Built-in full-text search engine

Open Interface

- ANSI-92 entry-level compliance
- ODBC 2.1 Level 2 support
- ESQL/C preprocessor

Data Integrity

- Integrity checking of primary and foreign keys
- Full support for referential actions
- Table and column constraints
- User-defined data types
- Default column values

Data Reliability

- Online transaction processing
- Online full and incremental backup
- Automatic crash recovery
- Automatic incremental backup
- Automatic statistic updates
- Database consistency checking
- Multiple journal files
- Optional BLOB backup

Storage Management

- Autoextend and regular tablespaces
- Raw device support on UNIX
- Maximum database size of 32TB
- No practical limit on the number of tables in a database
- No practical limit on the number of records in a table
- Online table schema redefinition

Security Management

- User- and group-level security
- Nested groups
- Privilege management on both tables and individual columns
- Privilege management on stored commands and stored procedures
- Network encryption

Distributed Database Management

- Distributed queries
- Distributed database management
- Two-phase commit
- Access to remote data objects

System Architecture

- Client/Server
- N-Tier
- Read-only database
- OLTP and batch processing

Advanced Language Features

- Built-in functions
- User-defined functions
- Stored commands
- Stored procedures
- Triggers

Platform Support

The DBMaker CD contains versions for the following platforms:

- Windows 95/98
- Windows NT
- Sun Solaris (Sun Sparc)
- Sun Solaris (Intel x86)
- Sun SunOS
- Linux
- Data General DG/UX

DBMaker is also available for the following platforms. To obtain a version that is not included on the CD, contact CASEMaker.

- FreeBSD
- Hewlett-Packard HP/UX
- IBM AIX
- SCO UnixWare
- SCO OpenServer
- SGI IRIX
- Tatung Mitux
- Unisys SVR4

System Requirements

Windows

- Intel 80486 or higher processor
- 16MB of available memory (32MB for best performance)
- 12MB of available disk space (50MB for full installation)
- TCP/IP network protocol and supported network or dial-up adapter
- VGA or higher display
- CD-ROM drive

UNIX

- 20MB of available disk space (50MB for full installation)
- CD-ROM drive

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