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Database

File

Hard Disk

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SQL Server

Access

Database Management Systems (DBMS) "

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Structured Query Language (SQL) "

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	1997/1/2			1255
	2002/2/9		VB.Net	1256
	1944/3/3			1257
	2000/4/2			1258
	1990/3/12			

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LongInt Integer

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	1944/3/3	100		1257
	2000/4/2	100		1258
	1990/3/12	100		

	50
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Byte

8 48 100 12 32000

30 20

600 $600 = 20 \times 30000$

60 60

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$66 = (2 + 20) \times 3000$

$126 = 66 + 60 =$

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Normalization ..

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:Relational Databases

Relationship

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.Key field " " -

Primary Key " " -

.. Unique

Foreign Key " " -

..

..

" " Master " " -

.. Detail

..Join " " -

..

One-to-many Relationship " " -

..

Many-to-many Relationship " " -

" " ..

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(2003

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. Paradox, dBASE, FoxPro, and Access. :

Microsoft SQL

Server

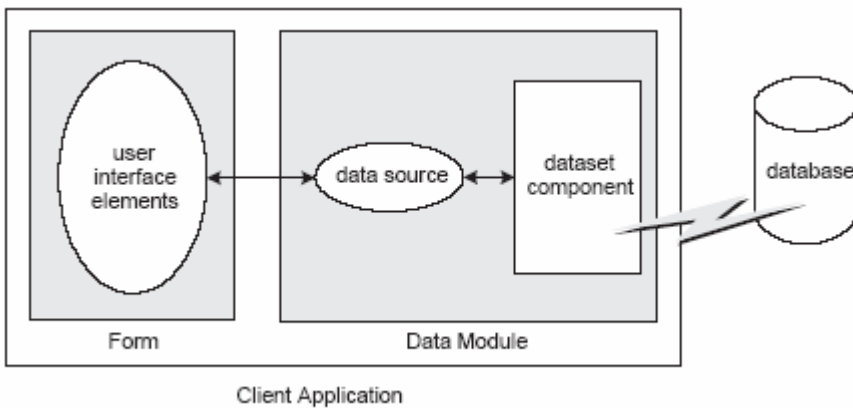
(3.6 TB

Structured Query Language (SQL)

InterBase, Oracle, Sybase, Informix, Microsoft SQLserver, :

and DB2.

3



: Data Access) :

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Oracle

Data

.Access