SUMMARY OF FEATURES

SQL Databases

ADO/OLE DB/Perl DBI

SQL standards

Can expose data as Web services

Viewable SQL-92 catalog schema

Left/right/full outer joins Can import/export data in XML

RED denotes Editors' Choice.

Nested loop/hash/merge join types Semi-join for star queries

Can query XML data using SQL/XML syntax

OLAP support for cube/grouping/moving averages

Can access XML data from Web services via SQL

QUERY LANGUAGE AND DATABASE DESIGN

	DB2 Universal Database 7.2	Microsoft SQL Server 2000 SP2	MySQL 4.0	Oracle9i Database	Sybase Adaptive Server Enterprise 12.5
Company	IBM Corp.	Microsoft Corp.	MySQL AB	Oracle Corp.	Sybase Inc.
List price	\$20,000 per CPU	\$19,999 per CPU	Free download	\$40,000 per CPU	\$3,995 per server
Server OSs supported	AIX, AS/400, HP-UX, Linux, OS/390, PTX, Solaris, Windows server versions, OS/2	Windows 95 or better	Most Unix versions, OS/2, Windows 95 or better	AIX, HP-UX, Linux, NetWare, Solaris, Tru64, Windows server versions	AIX, HP-UX, IRIX, Linux, Solaris, Tru64, Windows server versions
Client OSs supported	Any with a Java VM	Mac OS 9 or better, most Unix versions, Windows 95 or later	All server OSs listed above, Mac OS 9, OS/2, Windows 95 or later, VMS	Any with a Java VM	All server OSs listed above, Windows 98 or later
ADMINISTRATION					
Wizards for database creation/tables					
Wizards for restoring data/database connectivity					
Graphical tools for:					
Managing users/indices/stored procedures					
Database diagramming/viewing results of SQL commands					
Design area for changing schema					
Sends messages to DBA on alert thresholds					
Administration tools can run on a Web browser					
Import and export tools for text files/native database formats					
Administrator can set permissions by table/column/row					
Administrator can set permissions based on rules				_	_
Accredited by formal security credentials		<u>-</u>		-	
Can schedule jobs by time/event/alert					
Static/dynamic Web publishing SERVER ENGINE		•••			••
	I -	-		-	
Can use multiple CPUs for intra-query parallelism	-			-	
Can use multiple CPUs on insert/select Can use multiple CPUs on updates/deletes		-		-	
B-tree/clustered index types		-		-	
Bitmap/hash index types				-	
Cost-/rules-/CPU-based optimizers				-	
Allows multiple indices per query					
Generates automatic summary tables		_	_	_	
Optimizes queries with query rewrites/operation merging					
Multimedia data types: binary large object (BLOB)/unicode text objects/HTML					
Sound/video/images					
SCALABILITY AND AVAILABILITY					
Multiserver clustering		(via Windows)			
Client supports automatic failover to standby server					
Partial restore to a particular time					
Creates incremental/full backups					
Restores data at the table-space level					
Dual/circular logging					
PROGRAMMABILITY					
Stored procedures/Debugger for stored-procedure languages					
Can cascade nested triggers					
Multiple triggers per action and row					
Can run Enterprise JavaBeans in the database					
Interface for:					
JDBC/ODBC/RDO					

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SQL-92, Level 1

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Entry-level SQL 92

and some SQL-99

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extensions

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Limited SQL 89 and

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Entry-level SQL 99