Instituto Tecnológico Superior de Jerez

Jerez de García Salinas, Zacatecas.

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Ing. Sistemas Computacionales

Materia: Administración de Bases de Datos

Semestre: 8°

Actividad: Mapa Conceptual

Docente: I.S.C. Salvador Acevedo Sandoval

	MySQL	Oracle	SQL Server	PostgreSQL	SQLite
SO en los que trabaja	Windows, macOS, Linux, BSD, UNIX, AmigaOS, z/OS, Andoriod.	Windows, macOS, Linux, UNIX, z/OS, OpenVMS	Windows, Linux	Windows, macOS, Linux, BSD, UNIX, AmigaOS, z/OS, Andoriod.	Windows, macOS, Linux, BSD, UNIX, AmigaOS, z/OS, Andoriod, iOS.
ACID	Sí	Sí	Sí	Sí	Sí
Permite Integridad Referencial	Sí	Sí	Sí	Sí	Sí
Permite Transacciones	Sí	Sí	Sí	Sí	Sí
Max DB Size	Ilimitado	2PB (with standard 8k block) 8PB (with max 32k block) 8EB (with max 32k block and BIGFILE option)	524,272 TB (32 767 files * 16 TB max file size) 16ZB per instance	Ilimitado	128 TB (2^{31} pages * 64 KB max page size)
Max table size	MyISAM storage limits: 256 TB; Innodb storage limits: 64 TB	4 GB * block size (with BIGFILE tablespace)	524,272 TB	32 TB	Limited by file size
Max Row size	64 KB	8 KB	8,060 bytes/2TB	1.6 TB	Limited by file size
Max columns per row	4,096	1000	1,024/30,000(with sparse columns)	250–1600 depending on type	32,767
Max CHAR size	64 KB	32,767 B	2 gb	1 gb	2 GB
Max NUMBER size	64 bits	126 bits	126 bits	Ilimitado	64 bits
Min DATE value and Max DATE value	Min = 1000 Max = 9999	Min = -4712 Max = 9999	Min = 0001 Max = 9999	Min = -4713 Max = 5,874,897	No DATE type

Max column name size	64	128	128	63	Ilimitado
Tipos de particionamiento	Range, Hash, Composlte (Range + Hash), List	Range, Hash, Composlte (Range + Hash), List, Expression	Range, Hash, Composlte (Range + Hash), List, Expression	Range, Hash, Composlte (Range + Hash), List, Expression	Ninguno
Permite uso de Triggers	Sí.	Sí.	Sí.	Sí.	Sí.
Permite uso de procedimientos almacenados	Sí.	Sí.	Sí.	Sí.	No.
Tipos de datos ENTEROS	TINYINT (8-bit), SMALLINT (16-bit), MEDIUMINT (24-bit), INT (32-bit), BIGINT (64-bit)	NUMBER	TINYINT, SMALLINT, INT, BIGINT	SMALLINT (16-bit), INTEGER (32-bit), BIGINT (64-bit)	INTEGER (64-bit)
Tipos de datos de punto flotante	FLOAT (32-bit), DOUBLE (aka REAL) (64-bit)	BINARY_FLOAT, BINARY_DOUBLE	FLOAT, REAL	REAL (32-bit), DOUBLE PRECISION (64-bit)	REAL (aka FLOAT, DOUBLE) (64-bit)
Tipos de datos cadena	CHAR, BINARY, VARCHAR, VARBINARY, TEXT, TINYTEXT, MEDIUMTEXT, LONGTEXT	CHAR, VARCHAR2, CLOB, NCLOB, NVARCHAR2, NCHAR, LONG (deprecated)	CHAR, VARCHAR, TEXT, NCHAR, NVARCHAR, NTEXT	CHAR, VARCHAR, TEXT	TEXT (aka CHAR, CLOB)
Tipos de datos fecha y hora	DATETIME, DATE, TIMESTAMP, YEAR	DATE, TIMESTAMP (with/without TIMEZONE), INTERVAL	DATE, DATETIMEOFFSET, DATETIME2, SMALLDATETIME, DATETIME, TIME	DATE, TIME (with/without TIMEZONE), TIMESTAMP (with/without TIMEZONE), INTERVAL	N/A

Tipos de datos booleanos	BIT(1), BOOLEAN (aka BOOL) = synonym for TINYINT	N/A	BIT	BOOLEAN	N/A
Otros Tipos de datos	ENUM, SET, GIS data types (Geometry, Point, Curve, LineString, Surface, Polygon, GeometryCollection, MultiPoint, MultiCurve, MultiLineString, MultiSurface, MultiPolygon)	SPATIAL, IMAGE, AUDIO, VIDEO, DICOM, XMLType	CURSOR, TIMESTAMP, HIERARCHYID, UNIQUEIDENTIFIER, SQL_VARIANT, XML, TABLE, Geometry, Geography, Custom .NET datatypes	ENUM, POINT, LINE, LSEG, BOX, PATH, POLYGON, CIRCLE, CIDR, INET, MACADDR, BIT, UUID, XML, JSON, JSONB, arrays, composites, ranges, custom	N/A
Tipos de INDICES que maneja	R-/R+ tree, Hash, Full-text, Spatial, FOT	R-/R+ tree, Hash, Expression, Partial, Reverse, Bitmap, Full-text, Spatial, GiST, GIN, Duplicate index prevention	R-/R+ tree, Hash, Expression, Partial, Reverse, Bitmap, Full-text, FOT, Spatial, Duplicate index prevention	R-/R+ tree, Hash, Expression, Partial, Reverse, Bitmap, Full-text, Spatial, GiST, GIN, FOT	R-/R+ tree, Expression, Partial, Full-text, Spatial, FOT

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Referencias

[1] 29 01 2019. [En línea]. Available: https://en.wikipedia.org/wiki/Comparison_of_relational_database_management_systems.