INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

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Jerez, Zac

Ingeniería en sistemas computacionales

Semestre: 6

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Actividad: cuadro comparativo

Administración de bases de datos

Docente: MTI Salvador Acevedo Sandoval

	MySQL	Oracle	SQL Server	PostgreSQL	SQLite
SO en los que trabaja	Windows, MacOS, Linux, BSD, UNIX, AmigaOS, z/OS, Android	Windows, MacOS, Linux, UNIX, z/OS, OpenVMS	Windows, Linux	Windows, MacOS, Linux, BSD, UNIX, AmigaOS (MorphOS), z/OS (Under Linux on IBM Z).	Windows, MacOS, Linux, BSD, UNIX, AmigaOS, Maybe, iOS, Android.
ACID	Si	Si	Si	Si	Si
Permite integridad referencial	Si	Si	Si	Si	Si
Permite transacciones	Si excepto DDL	Si excepto DDL	Si	Si	Si
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	Ilimatado	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	Tamaño de archivos limitado
Max row size	64 KB[3]	8 KB	8,060 bytes/2TB	1.6 TB	Limited by file size
Max columns per row	4,096[4]	1000	1,024/30,000(with sparse columns)	250–1600 depending on type	32,767
Max CHAR size	64 KB (text)	32,767 B	2 GB	1 GB	2 GB
Max NUMBER size	64 bits	126 bits	126 Bits	Unlimited	64 bits
Min DATE value and max DATE value	Min: 1000 Max: 9999	Min: −4712 Max: 9999	Min: 0001 Max: 9999	Min: −4,713 Max: 5,874,897	No tipo de dato

Max column name size	64	128	128	63	ilimitado
Tipos de particionamiento	Range, Hash, Composite(rnge+hash), list.	Range, Hash, Composite(rnge+hash), list, expresión(Via Virtual Columns).	Range, Hash (via computed column), Composite(via computed column), list, expresión (via computed column).	Range, Hash, Composite, List, expression.	---------
Permite uso de Triggers	Si	Si	Si	Si	Si
Permite uso de Procedimientos Almacenados	Si	Si	Si	Si	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 ÍNDICES que maneja	R-/R+ tree(Spatial indexes), Hash (MEMORY, Cluster (NDB), InnoDB,[5] tables only), full-text (MyISAM table and, since v5.6.4, InnoDB tables), spatial (MyISAM tables and, since v5.7.5, InnoDB tables)	R-/R+tree, Hash (Cluster Tables), expresión, partial, reverse, bitmap, full-text, spatial, Duplicate index prevention	Spatial Indexes, Hash, Expression, partial, reverse (on Computed columns), bitmap (Bitmap filter index for Star Join Query), full-text, spatial	R-/R+tree, Hash, expresión, partial, reverse, bitmap, GiST, GIN, full-text, spatial (PostGIS).	R-/R+tree, expression, partial, full-text, spatial (SpatiaLite)

Referencias

wikipedia. (5 de febrero de 2020). *Comparison of relational database management systems*. Obtenido de https://en.wikipedia.org/wiki/Comparison_of_relational_database_management_systems