INSTITUTO TECNOLOGICO SUPERIOR DE JEREZ

Ingeniería en Sistemas Computacionales

5to Semestre

Alumno:

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Materia:

Taller de Bases de Datos

Nombre del trabajo

Cuadro Comparativo

Profesor:

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	MySQL	Oracle	SQL Server	PostgreSQL	SQLite
SO en los que trabaja	Linux, Solaris, macOS, Windows, FreeBSD	Linux, SUSE, Windows, SPARC, IBM AIX,	Linux, Windows Server, Windows	Most Unix-like operating systems and Windows	Android
ACID	SI	SI	SI	SI	SI
Permite integridad Referencial	SI	SI	SI	SI	SI
Permite Transacciones	SI	SI	SI	SI	SI
Max BD size	Unlimited	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	Unlimited	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[3]	8 KB	8,060 bytes/2TB[6]	1.6 TB	Limited by file size
Max columns per row	4,096[4]	1,000	1,024/30,000(with sparse columns)	250–1600 depending on type	32,767
Max CHAR size	64 KB	32,767 B[11]	2 GB[6]	1 GB	2 GB
Max NUMBER size	64 bits	126 bits	126 bits[2]	Unlimited	64 bits
Min DATE value and Max DATE value	1000 and 9999	−4712 and 9999	0001 and 9999	−4,713 and 5,874,897	NO DATE TYPE
Max column name size	64	128	128	63	NO DATE TYPE
Tipos de particionamiento	Range, Hash,	Range, Hash,	List, Range	Range, Hash,	N/A

	Composite (Range + Hash), List	Composite (Range + Hash), List		Composite (Range + Hash), List, Expression	
Permite uso de Triggers	SI	SI	SI	SI	SI
Permite el 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 de 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	PRIMARY KEY, KEY O INDEX, UNIQUE, FULLTEXT, SPATIAL	R-/R+Tree, Expressions, Partial, Reverse, BitMap, FullText, Sptatial	Hash, Expressions, Partial, FullText, Sptatial	R-/R+Tree, Expressions, Partial, Reverse, BitMap, FullText, GIST, GIN	R-/R+Tree, Expressions, Partial, FullText