

T017_Tareas2

[T17 Tareas · isabelmvi/Java-Techtalent-2024@a94a003 \(github.com\)](#)

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MongoDB Compass - localhost/Databases

Connect Edit View Help

localhost

My Queries Performance Databases

Search

almacenes científicos_directorio despachos empleados grandes_almacenes investigadores_facultad local pelicularsalas piezas_proveedores tienda_informatica

+ Create database Refresh

View Sort by Database Name

admin
Storage size: 20.48 kB
Collections: 0
Indexes: 1

almacenes
Storage size: 40.96 kB
Collections: 2
Indexes: 2

Biblioteca
Storage size: 40.96 kB
Collections: 10
Indexes: 10

científicos_proyecto
Storage size: 28.67 kB
Collections: 3
Indexes: 3

config
Storage size: 24.58 kB
Collections: 0
Indexes: 2

directores_despachos
Storage size: 40.96 kB
Collections: 2
Indexes: 2

empleados
Storage size: 40.96 kB
Collections: 2
Indexes: 2

grandes_almacenes
Storage size: 81.92 kB
Collections: 4
Indexes: 4

investigadores_facultad
Storage size: 49.15 kB
Collections: 4
Indexes: 4

local
Storage size: 20.48 kB
Collections: 1
Indexes: 1

pelicularsalas
Storage size: 40.96 kB
Collections: 2
Indexes: 2

piezas_proveedores
Storage size: 61.44 kB
Collections: 3
Indexes: 3

tienda_informatica
Storage size: 45.06 kB
Collections: 2
Indexes: 2

Ejercicio 1

tienda_informatica

articulos

fabricantes

	articulos					
	_id ObjectId	Codigo Int32	Nombre String	Precio Int32	Fab	
1	ObjectId('663b3cc39aa3da6...	1	"Artículo 1"	100	1	
2	ObjectId('663b3cc39aa3da6...	2	"Artículo 2"	200	2	
3	ObjectId('663b3cc39aa3da6...	3	"Artículo 3"	150	3	
4	ObjectId('663b3cc39aa3da6...	4	"Artículo 4"	300	4	
5	ObjectId('663b3cc39aa3da6...	5	"Artículo 5"	120	5	
6	ObjectId('663b3cc39aa3da6...	6	"Artículo 6"	180	6	
7	ObjectId('663b3cc39aa3da6...	7	"Artículo 7"	250	7	
8	ObjectId('663b3cc39aa3da6...	8	"Artículo 8"	350	8	
9	ObjectId('663b3cc39aa3da6...	9	"Artículo 9"	220	9	
10	ObjectId('663b3cc39aa3da6...	10	"Artículo 10"	280	10	
11	ObjectId('663b3cc39aa3da6...	11	"Nuevo producto"	150	3	
12	ObjectId('663b3ccd9aa3da6...	1	"Artículo 1"	100	1	
13	ObjectId('663b3ccd9aa3da6...	2	"Artículo 2"	200	2	
14	ObjectId('663b3ccd9aa3da6...	3	"Artículo 3"	150	3	
15	ObjectId('663b3ccd9aa3da6...	4	"Artículo 4"	300	4	
16	ObjectId('663b3ccd9aa3da6...	5	"Artículo 5"	120	5	
17	ObjectId('663b3ccd9aa3da6...	6	"Artículo 6"	180	6	
18	ObjectId('663b3ccd9aa3da6...	7	"Artículo 7"	250	7	
19	ObjectId('663b3ccd9aa3da6...	8	"Artículo 8"	350	8	
20	ObjectId('663b3ccd9aa3da6...	9	"Artículo 9"	220	9	

fabricantes				
	_id ObjectId	Codigo Int32	Nombre String	
1	ObjectId('663b3da4ec9ac0e...	1	"Fabricante A"	
2	ObjectId('663b3da4ec9ac0e...	2	"Fabricante B"	
3	ObjectId('663b3da4ec9ac0e...	3	"Fabricante C"	
4	ObjectId('663b3da4ec9ac0e...	4	"Fabricante D"	
5	ObjectId('663b3da4ec9ac0e...	5	"Fabricante E"	
6	ObjectId('663b3da4ec9ac0e...	6	"Fabricante F"	
7	ObjectId('663b3da4ec9ac0e...	7	"Fabricante G"	
8	ObjectId('663b3da4ec9ac0e...	8	"Fabricante H"	
9	ObjectId('663b3da4ec9ac0e...	9	"Fabricante I"	
10	ObjectId('663b3da4ec9ac0e...	10	"Fabricante J"	













































empleados

departamentos

empleado

Ejercicio 2


































departamentos				
	_id ObjectId	Codigo Int32	Nombre String	Presupuesto Int32
1	ObjectId('663b4243458cbl...	1	"Ventas"	10000
2	ObjectId('663b4243458cbl...	2	"Recursos Humanos"	15000
3	ObjectId('663b4243458cbl...	3	"Marketing"	20000
4	ObjectId('663b4243458cbl...	4	"Desarrollo"	12000
5	ObjectId('663b4243458cbl...	5	"Finanzas"	18000
6	ObjectId('663b4243458cbl...	6	"Producción"	22000
7	ObjectId('663b4243458cbl...	7	"Logística"	13000
8	ObjectId('663b4243458cbl...	8	"Calidad"	19000
9	ObjectId('663b4243458cbl...	9	"Tecnología"	17000
10	ObjectId('663b4243458cbl...	10	"Administración"	21000
11	ObjectId('663b4243458cbl...	11	"Calidad"	40000

empleado						
	_id ObjectId	DNI String	Nombre String	Apellidos String	Dep	
1	ObjectId('663b43c311ddf6...	"11111111A"	"Juan"	"González"	1	   
2	ObjectId('663b43c311ddf6...	"22222222B"	"María"	"Martínez"	2	   
3	ObjectId('663b43c311ddf6...	"33333333C"	"Antonio"	"Rodríguez"	3	   
4	ObjectId('663b43c311ddf6...	"44444444D"	"Carmen"	"Pérez"	4	   
5	ObjectId('663b43c311ddf6...	"55555555E"	"José"	"López"	5	   
6	ObjectId('663b43c311ddf6...	"66666666F"	"Ana"	"Sánchez"	6	   
7	ObjectId('663b43c311ddf6...	"77777777G"	"Manuel"	"Gómez"	7	   
8	ObjectId('663b43c311ddf6...	"88888888H"	"Laura"	"Díaz"	8	   
9	ObjectId('663b43c311ddf6...	"99999999I"	"Miguel"	"Fernández"	9	   
10	ObjectId('663b43c311ddf6...	"10101010J"	"Elena"	"Ruiz"	10	   
11	ObjectId('663b43c311ddf6...	"89267109"	"Esther"	"Vázquez"	11	   


































Ejercicio 3

- almacenes
 - Almacenes
 - cajas

Almacenes

	_id ObjectId	Codigo Int32	Lugar String	Capacidad Int32	
1	ObjectId('663b4551cb008a0...	1	"Almacén A"	100	  
2	ObjectId('663b4551cb008a0...	2	"Almacén B"	150	  
3	ObjectId('663b4551cb008a0...	3	"Almacén C"	200	  
4	ObjectId('663b4551cb008a0...	4	"Almacén D"	120	  
5	ObjectId('663b4551cb008a0...	5	"Almacén E"	180	  
6	ObjectId('663b4551cb008a0...	6	"Almacén F"	220	  
7	ObjectId('663b4551cb008a0...	7	"Almacén G"	130	  
8	ObjectId('663b4551cb008a0...	8	"Almacén H"	190	  
9	ObjectId('663b4551cb008a0...	9	"Almacén I"	170	  
10	ObjectId('663b4551cb008a0...	10	"Almacén J"	210	  
11	ObjectId('663b4551cb008a0...	11	"Barcelona"	3	  






























cajas

	_id ObjectId	NumReferencia String	Contenido String	Valor Int32	Alm	
1	ObjectId('663b460dd29d0e3...	"A1234"	"Libros"	50	1	  
2	ObjectId('663b460dd29d0e3...	"B5678"	"Ropa"	100	2	  
3	ObjectId('663b460dd29d0e3...	"C91011"	"Electrodomésticos"	200	3	  
4	ObjectId('663b460dd29d0e3...	"D121314"	"Juguetes"	80	4	  
5	ObjectId('663b460dd29d0e3...	"E151617"	"Herramientas"	120	5	  
6	ObjectId('663b460dd29d0e3...	"F181920"	"Electrónica"	150	6	  
7	ObjectId('663b460dd29d0e3...	"G212223"	"Muebles"	300	7	  
8	ObjectId('663b460dd29d0e3...	"H242526"	"Comida"	70	8	  
9	ObjectId('663b460dd29d0e3...	"I272829"	"Artículos deportivos"	90	9	  
10	ObjectId('663b460dd29d0e3...	"J303132"	"Productos de limpieza"	60	10	  
11	ObjectId('663b460dd29d0e3...	"H5RT"	"Papel"	200	6	  









































Ejercicio 4

- peliculasysalas
 - peliculas
 - salas

peliculas

	_id ObjectId	Codigo Int32	Nombre String	CalificacionEdad Int32	
1	ObjectId('663c7e8ec80da72...	1	"The Shawshank Redemption"	18	  
2	ObjectId('663c7e8ec80da72...	2	"The Godfather"	18	  
3	ObjectId('663c7e8ec80da72...	3	"The Dark Knight"	13	  
4	ObjectId('663c7e8ec80da72...	4	"Pulp Fiction"	18	  
5	ObjectId('663c7e8ec80da72...	5	"Schindler's List"	13	  
6	ObjectId('663c7e8ec80da72...	6	"Inception"	13	  
7	ObjectId('663c7e8ec80da72...	7	"Fight Club"	18	  
8	ObjectId('663c7e8ec80da72...	8	"Forrest Gump"	13	  
9	ObjectId('663c7e8ec80da72...	9	"The Matrix"	18	  
10	ObjectId('663c7e8ec80da72...	10	"Interstellar"	13	  









































🏠 salas

_id	ObjectId	Codigo	Int32	Nombre	String	Pelicula	Int32	
1	ObjectId('663c80222f5aaba...	1		"Sala 1"		1		   
2	ObjectId('663c80222f5aaba...	2		"Sala 2"		2		   
3	ObjectId('663c80222f5aaba...	3		"Sala 3"		3		   
4	ObjectId('663c80222f5aaba...	4		"Sala 4"		4		   
5	ObjectId('663c80222f5aaba...	5		"Sala 5"		5		   
6	ObjectId('663c80222f5aaba...	6		"Sala 6"		6		   
7	ObjectId('663c80222f5aaba...	7		"Sala 7"		7		   
8	ObjectId('663c80222f5aaba...	8		"Sala 8"		8		   
9	ObjectId('663c80222f5aaba...	9		"Sala 9"		9		   
10	ObjectId('663c80222f5aaba...	10		"Sala 10"		10		   









































Ejercicio 5

- directores_despachos
 - despachos
 - directores

🏠 despachos

_id	ObjectId	num	Int32	Capacidad	Int32	
1	ObjectId('663c82046a67c81...	101		10		   
2	ObjectId('663c82046a67c81...	102		8		   
3	ObjectId('663c82046a67c81...	103		12		   
4	ObjectId('663c82046a67c81...	104		9		   
5	ObjectId('663c82046a67c81...	105		15		   
6	ObjectId('663c82046a67c81...	106		11		   
7	ObjectId('663c82046a67c81...	107		14		   
8	ObjectId('663c82046a67c81...	108		7		   
9	ObjectId('663c82046a67c81...	109		13		   
10	ObjectId('663c82046a67c81...	110		6		   

🏠 directores

_id	ObjectId	DNI	String	NomApels	String	DNIJefe	Null	despa	
1	ObjectId('663c8269569f156...	"123456789"		"Christopher Nolan"		null		101	   
2	ObjectId('663c8269569f156...	"987654321"		"Steven Spielberg"		null		102	   
3	ObjectId('663c8269569f156...	"567890123"		"Quentin Tarantino"		null		103	   
4	ObjectId('663c8269569f156...	"321098765"		"Martin Scorsese"		null		104	   
5	ObjectId('663c8269569f156...	"789012345"		"Alfred Hitchcock"		null		105	   
6	ObjectId('663c8269569f156...	"234567890"		"Stanley Kubrick"		null		106	   
7	ObjectId('663c8269569f156...	"654321098"		"James Cameron"		null		107	   
8	ObjectId('663c8269569f156...	"890123456"		"Tim Burton"		null		108	   
9	ObjectId('663c8269569f156...	"456789012"		"Ridley Scott"		null		109	   
10	ObjectId('663c8269569f156...	"012345678"		"Clint Eastwood"		null		110	   





































Ejercicio 6

- piezas_proveedores
 - piezas
 - proveedores
 - suministra









































🏠 piezas

_id	ObjectId	Codigo	Int32	Nombre	String	
1	ObjectId('663cab728064f6e...	1		"Tornillo Phillips 2 pulg...		   
2	ObjectId('663cab728064f6e...	2		"Tuerca hexagonal M8"		   
3	ObjectId('663cab728064f6e...	3		"Cable eléctrico 16 AWG"		   
4	ObjectId('663cab728064f6e...	4		"Válvula de solenoide 24V"		   
5	ObjectId('663cab728064f6e...	5		"Interruptor de palanca S...		   
6	ObjectId('663cab728064f6e...	6		"Cinta métrica 5 metros"		   
7	ObjectId('663cab728064f6e...	7		"Broca para madera 10mm"		   
8	ObjectId('663cab728064f6e...	8		"Llave ajustable 8 pulgad...		   
9	ObjectId('663cab728064f6e...	9		"Cable coaxial RG-6"		   
10	ObjectId('663cab728064f6e...	10		"Filtro de aire para auto...		   

proveedores

	_id ObjectId	id String	Nombre String	
1	ObjectId('663cacacf7f2f03...	"ABCD"	"Ferretería El Martillo"	   
2	ObjectId('663cacacf7f2f03...	"EFGH"	"Suministros Industriales..."	   
3	ObjectId('663cacacf7f2f03...	"IJKL"	"Electrocomponentes López"	   
4	ObjectId('663cacacf7f2f03...	"MNOP"	"Hidráulica y Neumática G..."	   
5	ObjectId('663cacacf7f2f03...	"QRST"	"Electricidad Rodríguez"	   
6	ObjectId('663cacacf7f2f03...	"UVWX"	"Ferretería La Llave"	   
7	ObjectId('663cacacf7f2f03...	"YZAB"	"Herramientas Martínez"	   
8	ObjectId('663cacacf7f2f03...	"CDEF"	"Suministros de Mantenimi..."	   
9	ObjectId('663cacacf7f2f03...	"GHIJ"	"Electrónica Galindo"	   
10	ObjectId('663cacacf7f2f03...	"KLMN"	"Repuestos Automotrices P..."	   

















































































suministra

	_id ObjectId	CodigoPieza Int32	idProveedor String	precio Int32	
1	ObjectId('663cacf5507f6a3...	1	"ABCD"	50	   
2	ObjectId('663cacf5507f6a3...	2	"EFGH"	30	   
3	ObjectId('663cacf5507f6a3...	3	"IJKL"	20	   
4	ObjectId('663cacf5507f6a3...	4	"MNOP"	80	   
5	ObjectId('663cacf5507f6a3...	5	"QRST"	15	   
6	ObjectId('663cacf5507f6a3...	6	"UVWX"	10	   
7	ObjectId('663cacf5507f6a3...	7	"YZAB"	12	   
8	ObjectId('663cacf5507f6a3...	8	"CDEF"	25	   
9	ObjectId('663cacf5507f6a3...	9	"GHIJ"	18	   
10	ObjectId('663cacf5507f6a3...	10	"KLMN"	40	   























Ejercicio 7

- grandes_almacenes
 - cajeros
 - maquinas_registradoras
 - productos
 - ventas































cajeros

	_id ObjectId	Codigo Int32	NomApels String	
1	ObjectId('663cae62eebc663...	1	"Juan Pérez"	   
2	ObjectId('663cae62eebc663...	2	"María Gómez"	   
3	ObjectId('663cae62eebc663...	3	"Carlos Rodríguez"	   
4	ObjectId('663cae62eebc663...	4	"Ana López"	   
5	ObjectId('663cae62eebc663...	5	"Pedro Martínez"	   
6	ObjectId('663cae62eebc663...	6	"Laura Sánchez"	   
7	ObjectId('663cae62eebc663...	7	"Diego García"	   
8	ObjectId('663cae62eebc663...	8	"Sofía Fernández"	   
9	ObjectId('663cae62eebc663...	9	"Manuel Ruiz"	   
10	ObjectId('663cae62eebc663...	10	"Elena Díaz"	   
11	ObjectId('663cae65eebc663...	1	"Juan Pérez"	   
12	ObjectId('663cae65eebc663...	2	"María Gómez"	   
13	ObjectId('663cae65eebc663...	3	"Carlos Rodríguez"	   
14	ObjectId('663cae65eebc663...	4	"Ana López"	   
15	ObjectId('663cae65eebc663...	5	"Pedro Martínez"	   
16	ObjectId('663cae65eebc663...	6	"Laura Sánchez"	   
17	ObjectId('663cae65eebc663...	7	"Diego García"	   
18	ObjectId('663cae65eebc663...	8	"Sofía Fernández"	   
19	ObjectId('663cae65eebc663...	9	"Manuel Ruiz"	   
20	ObjectId('663cae65eebc663...	10	"Elena Díaz"	   































maquinas_registradoras

_id	ObjectId	Codigo	Int32	Piso	Int32	
1	ObjectId('663caefc1ef8351...	1		1		  
2	ObjectId('663caefc1ef8351...	2		2		  
3	ObjectId('663caefc1ef8351...	3		1		  
4	ObjectId('663caefc1ef8351...	4		3		  
5	ObjectId('663caefc1ef8351...	5		2		  
6	ObjectId('663caefc1ef8351...	6		1		  
7	ObjectId('663caefc1ef8351...	7		3		  
8	ObjectId('663caefc1ef8351...	8		2		  
9	ObjectId('663caefc1ef8351...	9		1		  
10	ObjectId('663caefc1ef8351...	10		3		  

productos

_id	ObjectId	Codigo	Int32	Nombre	String	Precio	Int32	
1	ObjectId('663caf638a47148...	101		"Camiseta básica"		10		  
2	ObjectId('663caf638a47148...	102		"Pantalón vaquero"		30		  
3	ObjectId('663caf638a47148...	103		"Zapatillas deportivas"		50		  
4	ObjectId('663caf638a47148...	104		"Gafas de sol"		20		  
5	ObjectId('663caf638a47148...	105		"Reloj de pulsera"		100		  
6	ObjectId('663caf638a47148...	106		"Mochila escolar"		25		  
7	ObjectId('663caf638a47148...	107		"Cartera de cuero"		40		  
8	ObjectId('663caf638a47148...	108		"Bufanda de lana"		15		  
9	ObjectId('663caf638a47148...	109		"Guantes de invierno"		12		  
10	ObjectId('663caf638a47148...	110		"Sombrero de paja"		8		  










ventas

_id	ObjectId	Cajero	Int32	Maquina	Int32	Producto	Int32	
1	ObjectId('663cafe7521427d...	1		1		101		  
2	ObjectId('663cafe7521427d...	2		2		102		  
3	ObjectId('663cafe7521427d...	3		3		103		  
4	ObjectId('663cafe7521427d...	4		4		104		  
5	ObjectId('663cafe7521427d...	5		5		105		  
6	ObjectId('663cafe7521427d...	6		6		106		  
7	ObjectId('663cafe7521427d...	7		7		107		  
8	ObjectId('663cafe7521427d...	8		8		108		  
9	ObjectId('663cafe7521427d...	9		9		109		  
10	ObjectId('663cafe7521427d...	10		10		110		  







Ejercicio 8

- investigadores_facultad
 - equipos
 - facultad
 - investigadores
 - reserva













equipos

_id	ObjectId	NumSerie	String	Nombre	String	Facultad	Int32	
1	ObjectId('663cb422819a3aa...	"0001"		"Equipo 1"		1		  
2	ObjectId('663cb422819a3aa...	"0002"		"Equipo 2"		2		  
3	ObjectId('663cb422819a3aa...	"0003"		"Equipo 3"		1		  













facultad

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1	ObjectId('663cb48f282f88c...	1		"Facultad de Ciencias"		  
2	ObjectId('663cb48f282f88c...	2		"Facultad de Ingeniería"		  

investigadores

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1	ObjectId('663cb4d0af24db0...	"123456789"	"Investigador 1"	1	   
2	ObjectId('663cb4d0af24db0...	"987654321"	"Investigador 2"	2	   
3	ObjectId('663cb4d0af24db0...	"456789123"	"Investigador 3"	1	   

reserva

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2	ObjectId('663cb50a7bff338...	"987654321"	"0002"	"2024-05-04"	"2025-0...	   
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







cientificos_proyecto

asignado_a









































cientificos

proyecto





































cientificos

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1	ObjectId('663cb66113b72e0...	"123456789"	"María López"	   
2	ObjectId('663cb66113b72e0...	"987654321"	"Juan García"	   
3	ObjectId('663cb66113b72e0...	"456789123"	"Ana Martínez"	   
4	ObjectId('663cb66113b72e0...	"321654987"	"Pedro Rodríguez"	   
5	ObjectId('663cb66113b72e0...	"654321987"	"Laura Pérez"	   
6	ObjectId('663cb66113b72e0...	"789456123"	"Carlos Sánchez"	   
7	ObjectId('663cb66113b72e0...	"147258369"	"Elena González"	   
8	ObjectId('663cb66113b72e0...	"258369147"	"Sergio Fernández"	   
9	ObjectId('663cb66113b72e0...	"369147258"	"Carmen Ruiz"	   
10	ObjectId('663cb66113b72e0...	"852963147"	"David López"	   

proyecto

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8	ObjectId('663cb6b74c98155...	"P008"	"Proyecto H"	170	   
9	ObjectId('663cb6b74c98155...	"P009"	"Proyecto I"	210	   
10	ObjectId('663cb6b74c98155...	"P010"	"Proyecto J"	140	   

asignado_a

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6	ObjectId('663cb7437d8e58c...	"789456123"	"P007"	   
7	ObjectId('663cb7437d8e58c...	"147258369"	"P008"	   
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Ejercicio 9