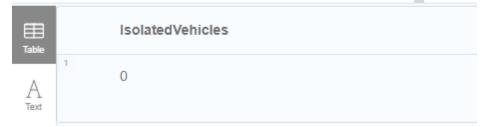
> Total Number of Nodes by Type:

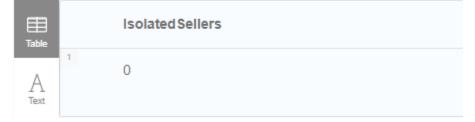


> Number of Isolated Nodes by Type:

- 1 MATCH (v:Vehicle)
- 2 WHERE NOT (v)--()
- 3 RETURN COUNT(v) AS IsolatedVehicles



- 1 MATCH (s:Seller)
- 2 WHERE NOT (s)--()
- 3 RETURN COUNT(s) AS IsolatedSellers



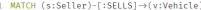
- 1 MATCH (st:State)
- 2 WHERE NOT (st)--()
- 3 RETURN COUNT(st) AS IsolatedStates



Number of Total Relationships by Type:

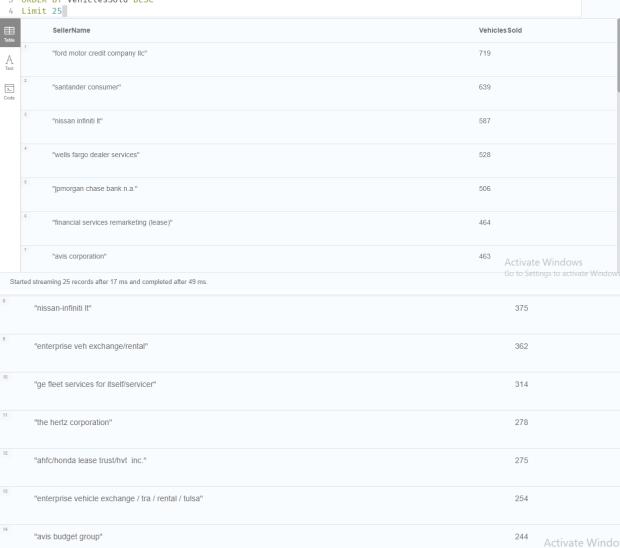


Number of Vehicles Sold by Each Seller:



1 MATCH (s:Seller)-[:SELLS] → (v:Vehicle)
2 RETURN s.name AS SellerName, COUNT(v) AS VehiclesSold
3 ORDER BY VehiclesSold DESC





15	"dt credit corporation"	219	
16	"toyota financial services"	213	
17	"hyundai motor finance"	209	
18	"nissan north america inc."	206	
19	"kia motors america inc"	198	
20	"tdaf remarketing"	195	
21	"ford motor credit company IIc pd"	194	Activate Wind
22	"high bid trading co inc"		177
23	"mercedes-benz financial services"		162
24	"chrysler capital"		162
25	"aaero sweet company"		154 Activate
			Activate

> Number of Sellers Operating in Each State:

- 1 MATCH (st:State)←[:OPERATES_IN]-(s:Seller)
- 2 RETURN st.name AS StateName, COUNT(s) AS NumberOfSellers
- 3 ORDER BY NumberOfSellers DESC

Table		StateName	NumberOfSellers
A	1	"ca"	945
∑_ Code	2	"fl"	611
	3	"pa"	433
	4	"tx"	422
	5	"il"	305
	6	"ga"	280
	7	"nj"	253
	0		

Started streaming 36 records after 1 ms and completed after 6 ms.

8	"va"	238
9	"nv"	229
10	"mn"	225
11	"nc"	205
12	"ny"	202
13	"az"	198
14	"mi"	153

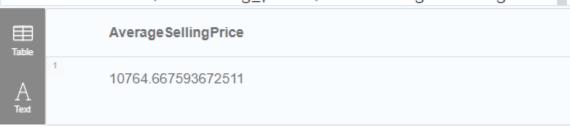
15	"wi"	132
16	"mo"	124
17	"wa"	121
18	"SC"	108
19	"ne"	96
20	"oh"	93
21	"tn"	88

22	"ma"	85
23	"on"	85
24	"in"	81
25	"co"	81
26	"la"	64
27	"ut"	50
28	"pr"	38

29	"md"	25
30	"ab"	19
31	"hi"	17
32	"or"	14
33	"ok"	8
34	"qc"	2
35	"ms"	2
36	"nm"	1

> Average Selling Price of Vehicles:

- 1 MATCH (v:Vehicle)
- 2 RETURN AVG(v.selling_price) AS AverageSellingPrice



> Vehicles with Selling Price Above and Below the MMR:

- 1 MATCH (v:Vehicle)
 2 WHERE v.selling_price > v.mmr
 3 RETURN COUNT(v) AS AboveMMR

 AboveMMR

 1 13988

 1 MATCH (v:Vehicle)
 2 WHERE v.selling_price < v.mmr
 3 RETURN COUNT(v) AS BelowMMR

 BelowMMR

 1 18938
 - ➤ Most Common Vehicle Makes:

```
1 MATCH (v:Vehicle)
```

2 RETURN v.make AS Make, COUNT(v) AS Count

3 ORDER BY Count DESC

4 LIMIT 10

Table		Make	Count
A	1	"Ford"	5247
∑_ Code	2	"Chevrolet"	3390
	3	"Nissan"	2266
	4	"Toyota"	2216
	5	"Honda"	1848
	6	"Dodge"	1807
	7	"BMW"	1529
Star	rted strear	ming 10 records after 1 ms and completed after 39 ms.	
8	"Hyu	ndai"	1241
9	"Mer	cedes-Benz"	1081
10	"Chry	ysler"	1018

> Distribution of Vehicle Conditions:

- 1 MATCH (v:Vehicle)
- 2 RETURN v.condition AS Condition, COUNT(v) AS Count
- 3 ORDER BY Condition

	OIL	DER DI C	onarcı	
\blacksquare		Condition	Count	
Table		1	520	
A Text		2 L	 1379 	
>_		 3 	 596 	
Code		4 	648 648	
		5 5	459	
		 11 	4	
		12	7	
		 13 	1	
		 14 	114	
		15	8	
		 16 	 6 	
		17	15	

	_		
Table	18	 22 	
А	19	 2325 	
Text	21	470	
>_ Code	22	290	
	23	421	
	24	465	
	25	 666 	
	26	605	
	27	780	
	28	900	
	29	 863 	
	31	400	

32	368	
33	437	
34	656	
35	1052	
36	909	
37	964	
38	749	
39	763	
41	854	
42	818	
43	869	
44	879	
45	463	

 46 	 461
47 L	408
48 	470
49 	447
null L	10011

> Vehicle Distribution by Year:

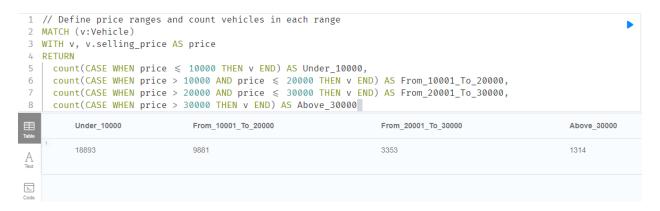
- 1 MATCH (v:Vehicle)
- 2 RETURN v.year AS Year, COUNT(v) AS Count
- 3 ORDER BY Year

0	OKDEK DI 166	L	
	Year Count		
Table	1986 1		
A Text	1987 1		
∑_ Code	1989 4		
0002	1990 7		
	1991 9		
	1992 23		
	1993 26		
	1994 48		
	1995 94		
	1996 133		
	1997 190		
	1998 290		

1999	453
2000	694
2001	833
2002	1278
2003	1537
2004	1873
2005	2134
2006	2584
2007	2649
2008	2503
2009	1559
2010	1755
2011	3586

2012	1667	
2013	3693	
2014	3645	
2015	173	

Price Range Analysis:



> Average Selling Price



> Frequency of Vehicle Colors:

```
1 MATCH (v:Vehicle)
2 RETURN v.color AS Color, COUNT(v) AS Count
3 ORDER BY Count DESC
4 LIMIT 10
```

4	ГТ	MII 10		
Table		Color	Count	
Α		"black"	6491	
Text		"white"	5942	
∑_ Code		"silver"	5153	
		gray"	4889	
		"blue"	3430	
		"red"	2577	
		green"	1001	
		gold"	897	
		"_"	826	
		"beige"	712	

> Seller Performance Over Time:

ORDE	R BY SellerName, Year		
	SellerName	Year	Vehicles
1	"1 cochran of monroeville"	1900	3
2	"1995 first avenue station"	1900	2
3	"1st capital finance"	1900	1
4	"1st choice automotive corp"	1900	1
5	"1st commercial"	1900	6
6	"1st liberty fcu"	1900	1
7	"1st national bank of scotia"	1900	2

> Geographical Distribution of Sales:

- 1 MATCH (v:Vehicle)-[:SOLD_IN]→(st:State)
- 2 RETURN st.name AS StateName, COUNT(v) AS VehiclesSold
- 3 ORDER BY VehiclesSold DESC

=	1
	1
Table	2





StateName	VehiclesSol
 	d
"ca"	8485
 "fl" 	3316
"tx"	2262
"pa"	2237
 "il"	1854
"ga"	1377
"va"	1362
"mi"	1312
"nc"	1071
 "az"	1021
"ny"	1014

"mn" 972				
"nv" 885	"nj"	972]	
"oh" 568	"mn"	 910] 	
"tn" 553 "mo" 516	"nv"	 885] 	
"mo" 516	"oh"	 568 	1 	
"ne" 488	"tn"	 553] 	
"wi" 428	"mo"	 516 		
"wa" 381	"ne"	 488 		
"sc" 365	"wi"	 428 		
"la" 354	"wa"	 381 		
"in" 303	"sc"	365		
i	"la"	354		
"co" 274	"in"	303		
	"co"	274		

"pr"	271	j
"ma"	 266 	
"on"	 209 	
"ut"	 121 	
"md"	 103 	
"ab"	 68 	
"or"	 32 	
"hi"	 28 	
"ok"	 21 	
"qc"	 12 	
"ms"	 2 	
"nm"	 1 	

> Relationship Density:

- 1 MATCH (n)
- 2 WITH COUNT(n) AS totalNodes
- 3 MATCH ()-[r] \rightarrow ()
- 4 WITH COUNT(r) AS totalRelationships, totalNodes
- 5 RETURN totalRelationships, totalNodes, toFloat(totalRelationships) / totalNodes AS avgRelationshipsPerNode

Table	totalRelationships	totalNodes	avgRelationshipsPerNode
A Text	145834	38355	3.802216138704211