

# Dunder Mifflin Policies By Partners



## Context

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1  /*
2  Pretending I am a Data Analyst at Dunder Mifflin.
3  Michael Scott wants to know who our most popular partner is.
4
5  To achieve this I would look at policy count by partner as a way to prove x partner is our most popular partner.
6  I will need to find a table that has policy records, another table with partner profiles, and some kind of sales records.
7  As i go dig for data I need to keep in mind some partners have multiple represenations in multiple regions due to expansion and mergers.
8  What i mean is they might have children partners and each child partner has its own partner code apart from the parent partner code.
9  Anyways, I found the tables and plan on querying policy count (in aggregated form) and sort by most to least in association with the partner codes.
10
11  There are four tables
12  table name      alias      contents
13  -----
14  partner lookup   plu       partner codes, partner names, and partner business sector (i.e. law, education, energy, etc.)
15  policy option    po       policy detail
16  policy           p        product focused and contains customers' profiles w payment info and product info
17  schedule         s        Jim/Dwight's team own this table which entails contract details that can be linked to customers
18
19  Dunder Mifflin is a thriving paper company and has accumulated many partners and policies over the years.
20  Jim is kind enough to help me narrow down the partners by telling me that their top partner is called 'Vance Refrigeration'.
21  So far he has no evidence other than by experience as a salesman.
22  Well there is a table called 'Partner Lookup' in the database located at this schema --> DM.PARTNERLOOKUP.
23  The table contains details such as the partner codes, partner names, and partner business sector (i.e. law, education, energy, etc.)
24  In the DM.PARTNERLOOKUP I filter the partner column to 'Vance Refrigeration', the associating partner codes are 'JDF', 'JX', and 'J5' and the business sector is coded as 'energy'.
25  That is very helpful as I make a mental note to look at policies that at least contain those partner codes.
26
27  Some accronyms worth mentioning:
28  DM = Dunder Mifflin
29  SPA = Scanton PA
30  POLREF = policy reference
31  SCHEDREF = schedule reference
32  POLSTATUS = policy status
33
34
35  Overlaps observed amongst the three tables: policy option, policy, and schedule
36  - policy option and policy share POLREF
37  - schedule and policy share SCHEDREF
38
39  The reason i'm not joining the partner lookup table to the three tables listed above is because multiple joins can get messy.
40  So i capped the joins to three tables and just bared in mind the relevant partner codes to be on the look out for.
41
42  */
43
```



## SQL script

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```
44 select
45 COUNT (po.POLREF) AS PolicyRef -- column 1 aggregated policies
46 ,s.PARTNERCODE -- column 2 partner codes
47 FROM DM.SPA_POLICYOPTION po -- let the policy option table be the driving table
48 JOIN DM.SPA_POLICY p ON (po.POLREF = p.POLREF) -- join policy table to policy option table on the shared column 'polref'
49 JOIN SALES.SCHEDULE s ON (s.SCHEDREF = p.SCHEDREF) -- join the schedule table to the policy table on the shared column 'schedref'
50 where fromdate <= trunc(sysdate) -- filtering the date to to speed up the query
51 AND ((todate is null) or (todate >= sysdate ))
52 AND p.POLSTATUS in ('c','g','q','C','G','Q') -- filtering the policy status column to codes that mean "active"
53 AND s.PARTNERCODE LIKE 'J%' -- to be extra safe, showing all policies that have partner codes that begin with a 'J'
54 GROUP BY s.PARTNERCODE -- grouped the results by partner codes
55 ORDER BY COUNT(po.POLREF) DESC; -- order by most to least
```



## Result

	A	B	C	D	E	F	G	H	I
1	POLICYR	PARTNERCODE							
2	74937	JDF			94,092	sum of all policies with Vance Refrigeration			
3	69616	JV6							
4	25288	JL							
5	25273	J6							
6	23702	JF							
7	22962	JW							
8	20808	JN							
9	16757	J32							
10	12638	JV2							
11	12030	JX							
12	11297	JW7							
13	10707	JKU							
14	8853	J28							
15	7411	JLU							
16	7125	J5							
17	4310	JL3							
18	4165	JG							
19	3640	JEJ							
20	3207	J23							
21	2697	J7							
22	2519	JK9							
23	2430	JBP							
24	2139	JQ8							
25	2078	JGA							
26	1991	JEG							
27	1866	JJ							
28	1637	J54							
29	1532	JBY							
30	1420	J29							
31	1135	JEL							
32	1085	JL8							
33	1033	J1							
34	1032	J02							
35	1005	JEF							
36	991	JAY							
37	988	JBX							

94,092	sum of all policies with Vance Refrigeration
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Left: the SQL query output in the form of a csv file. The file shows two columns- aggregate policy count and grouped by partner codes.

Above: The sum of the policies with the highlighted partner codes as they are associated with Vance Refrigeration.