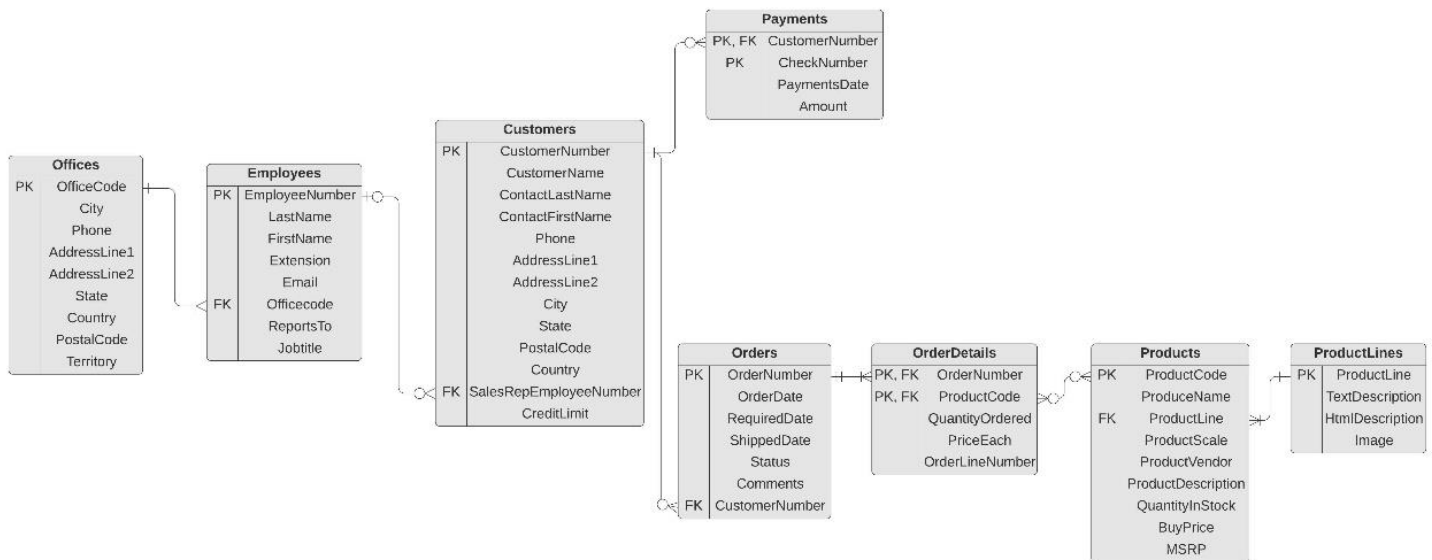


Classicmodels Portfolio

Database

Classicmodels is a company that sales vehicle miniature models.

Classicmodels database built from 8 tables that connected like shawn below.



The company has 6 offices, 23 employees, 122 customers and 110 products.

The database contains information from January 2003 to May 2005.

Analysis

I analyzed the database with SQL.

The analysis is separated to 3 sections, in each section I dived into a different table:

Section 1 – Employees and Customers

Section 2 – Orders

Section 3 – Products

I visualized every section with a dashboard.

The code can be found in my github profile:

<https://github.com/NirMendelson/PortfolioProjects>

Section 1 – Employees and Customers

In this section I'm going to dive into how Classicmodels company is organized, I hope this data exploration will lead to recommendations for how to make this company more effective and productive.

First I want to see how many employees are in each office and where the office is located:

officecode	jobtitle	employees	country
1	President	1	CA
1	Sales Manager (NA)	1	CA
1	Sales Rep	2	CA
1	VP Marketing	1	CA
1	VP Sales	1	CA
2	Sales Rep	2	MA
3	Sales Rep	2	NY
4	Sale Manager (EMEA)	1	France
4	Sales Rep	4	France
5	Sales Rep	2	Japan
6	Sales Manager (APAC)	1	Australia
6	Sales Rep	3	Australia
7	Sales Rep	2	UK

We can see that:

the main office is in California.

Classicmodels company has 3 offices in the US and 4 abroad.

Offices 2,3,5,7 don't have a sales manager.

Let's see how many customers every office has:

customers	officecode	country
29	4	France
22	NULL	NULL
17	7	UK
15	3	USA
12	1	USA
12	2	USA
10	6	Australia
5	5	Japan

Office 4 (France) has the most customers and office 5 (Japan) has the least.

There are 22 customers who don't have a sales rep, that makes them potential customers instead of active customers.

Let's see if there are sales reps that don't have any customers:

customers	sales_rep	officecode	country
22	no sales rep	no office	no office
10	Pamela Castillo	4	France
9	Barry Jones	7	UK
8	George Vanauf	3	NY
8	Larry Bott	7	UK
7	Foon Yue Tseng	3	NY
7	Gerard Hernandez	4	France
6	Julie Firrelli	2	MA
6	Leslie Jennings	1	CA
6	Leslie Thompson	1	CA
6	Loui Bondur	4	France
6	Martin Gerard	4	France
6	Steve Patterson	2	MA
5	Andy Fixter	6	Australia
5	Mami Nishi	5	Japan
5	Peter Marsh	6	Australia
0	Tom King	6	Australia
0	Yoshimi Kato	5	Japan

Tom King from office 6 and Yoshimi Kato from office 5 don't have any customers, I recommend talking to their superiors (William Patterson and Mami Nishi) to understand why they don't have customers.

Pamela Castillo has the most customers (10).

I want to see active customers VS potential customer by country:

active customers	potential customers	country
3	10	Germany
0	2	Portugal
5	2	Spain
1	1	Ireland
0	1	Israel
0	1	Netherlands
0	1	Poland
0	1	Russia
2	1	Singapore
0	1	South Africa
2	1	Switzerland
5	0	Australia
2	0	Austria
2	0	Belgium
3	0	Canada
2	0	Denmark
3	0	Finland
12	0	France
1	0	Hong Kong
4	0	Italy
2	0	Japan
4	0	New Zealand
3	0	Norway
1	0	Philippines
2	0	Sweden
5	0	UK
36	0	USA

45% of all potential customers are from Germany.

Let's estimate how much money the company would make if every customer had a sales rep:

active_customers	active_and_potential_customers	growth_pct	average_monthly_revenue	potential_monthly_revenue
100	122	122	295128	360056

The company would make \$360,056 a month if all customers had a sales rep.

Let's check if we have a sales rep that can reach out to the potential customers:

customernumber	customer_country	employeename			
114	Australia	Andy Fixter	125	Poland	NULL
276	Australia	Andy Fixter	169	Portugal	NULL
282	Australia	Andy Fixter	369	Portugal	NULL
333	Australia	Andy Fixter	480	Russia	NULL
471	Australia	Andy Fixter	206	Singapore	NULL
382	Austria	Pamela Castillo	148	Singapore	Mami Nishi
452	Austria	Pamela Castillo	166	Singapore	Peter Marsh
314	Belgium	Pamela Castillo	356	South Africa	NULL
381	Belgium	Pamela Castillo	237	Spain	NULL
233	Canada	Foon Yue Tseng	465	Spain	NULL
202	Canada	George Vanauf	141	Spain	Gerard Hernandez
260	Canada	George Vanauf	216	Spain	Martin Gerard
145	Denmark	Pamela Castillo	344	Spain	Martin Gerard
227	Denmark	Pamela Castillo	458	Spain	Martin Gerard
186	Finland	Larry Bott	484	Spain	Martin Gerard
311	Finland	Larry Bott	144	Sweden	Barry Jones
334	Finland	Larry Bott	448	Sweden	Barry Jones
103	France	Gerard Hernandez	293	Switzerland	NULL
119	France	Gerard Hernandez	298	Switzerland	Martin Gerard
171	France	Gerard Hernandez	376	Switzerland	Martin Gerard
209	France	Gerard Hernandez	187	UK	Larry Bott
242	France	Gerard Hernandez	201	UK	Larry Bott
256	France	Gerard Hernandez	240	UK	Larry Bott
146	France	Loui Bondur	324	UK	Larry Bott
172	France	Loui Bondur	489	UK	Larry Bott
250	France	Loui Bondur	151	USA	Foon Yue Tseng
350	France	Loui Bondur	168	USA	Foon Yue Tseng
353	France	Loui Bondur	181	USA	Foon Yue Tseng
406	France	Loui Bondur	424	USA	Foon Yue Tseng
223	Germany	NULL	455	USA	Foon Yue Tseng
247	Germany	NULL	456	USA	Foon Yue Tseng
273	Germany	NULL	131	USA	George Vanauf
307	Germany	NULL	175	USA	George Vanauf
335	Germany	NULL	319	USA	George Vanauf
361	Germany	NULL	328	USA	George Vanauf
409	Germany	NULL	447	USA	George Vanauf
443	Germany	NULL	486	USA	George Vanauf
459	Germany	NULL	173	USA	Julie Firrelli
477	Germany	NULL	204	USA	Julie Firrelli
128	Germany	Barry Jones	320	USA	Julie Firrelli
259	Germany	Barry Jones	339	USA	Julie Firrelli
415	Germany	Barry Jones	379	USA	Julie Firrelli
211	Hong Kong	Mami Nishi	495	USA	Julie Firrelli
348	Ireland	NULL	124	USA	Leslie Jennings
189	Ireland	Barry Jones	129	USA	Leslie Jennings
481	Israel	NULL	161	USA	Leslie Jennings
249	Italy	Pamela Castillo	321	USA	Leslie Jennings
278	Italy	Pamela Castillo	450	USA	Leslie Jennings
386	Italy	Pamela Castillo	487	USA	Leslie Jennings
473	Italy	Pamela Castillo	112	USA	Leslie Thompson
177	Japan	Mami Nishi	205	USA	Leslie Thompson
398	Japan	Mami Nishi	219	USA	Leslie Thompson
303	Netherlands	NULL	239	USA	Leslie Thompson
323	New Zealand	Peter Marsh	347	USA	Leslie Thompson
357	New Zealand	Peter Marsh	475	USA	Leslie Thompson
412	New Zealand	Peter Marsh	157	USA	Steve Patterson
496	New Zealand	Peter Marsh	198	USA	Steve Patterson
121	Norway	Barry Jones	286	USA	Steve Patterson
167	Norway	Barry Jones	362	USA	Steve Patterson
299	Norway	Barry Jones	363	USA	Steve Patterson
385	Philippines	Mami Nishi	462	USA	Steve Patterson

My recommendations are:

- Hire a sales rep that speaks fluent German to provide a service to customers 223,247,273,307,335,361,409,443,459,477 or even consider opening an office in Germany.
- Barry Jones takes customer 348 (he's already selling to customer 189 that's in Ireland).
- Gerard Hernandez takes customer 481 that's in Israel (one customer isn't worth hiring a Hebrew speaker sales rep for).
- Martin Gerard takes customer 303 that's in Netherlands (one customer isn't worth hiring a Dutch speaker sales rep for).
- Martin Gerard takes customers 169 and 369 that's in Portugal (he's already selling to Spanish customers).
- Gerard Hernandez takes customers 237 and 465 that's in Spain (he's already selling to Spanish customers).
- Martin Gerard takes customer 293 that's in Switzerland (he's already selling to Swiss customers).