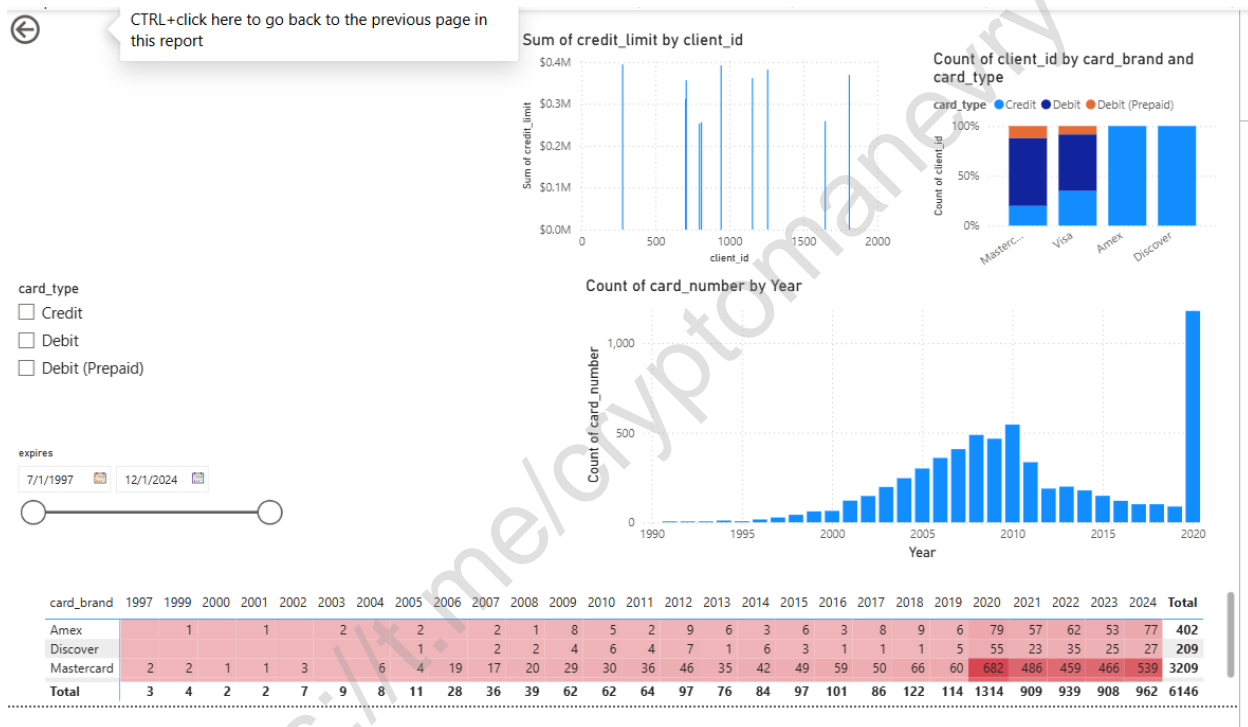


- **Total Card Limit by Card Brand and Card Type (Stacked Column Chart)**
 - **X-axis:** card_brand (e.g., Visa, Mastercard, Amex)
 - **Y-axis:** Sum of card_limit
 - **Legend:** card_type (e.g., Credit, Debit, Prepaid)
 - **Tooltip:** client_id count (i.e., number of clients using this brand/type combo)

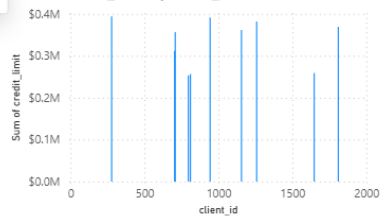


- **Drill Down into Monthly Trends (Drill Down Feature)**
 - **Create a drill-down chart for analyzing card issues by time:**
 - **Hierarchy:** Year → Month (from account_opened_date)
 - **Values:** Count of card_number
 - **Chart type:** Stacked Column Chart
 - **Enable drill down/up to move between years and months.**

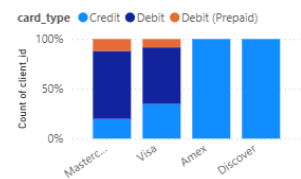


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Sum of credit_limit by client_id



Count of client_id by card_brand and card_type



card_type

☐ Credit

☐ Debit

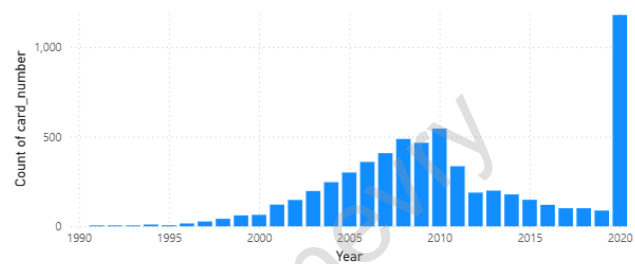
☐ Debit (Prepaid)

expires

7/1/1997

12/1/2024

Count of card_number by Year



card_brand	1997	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
Amex		1		1	2			2		2	1	8	5	2	9	6	3	6	3	8	9	6	79	57	62	53	77	402
Discover								1		2	2	4	6	4	7	1	6	3	1	1	1	5	55	23	35	25	27	209
Mastercard		2	2	1	1	3	6	4	19	17	20	29	30	36	46	35	42	49	59	50	66	60	682	486	459	466	539	3209
Total		3	4	2	2	7	9	8	11	28	36	39	62	64	97	76	84	97	101	86	122	114	1314	909	939	908	962	6146

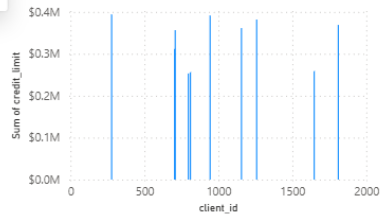
• Top 10 Clients by Total Card Limit (Bar Chart)

- **Axis:** client_id
- **Value:** Total card limit
- **Filter:** Top 10 clients
- **Sort:** Descending by total card limit
- **Use a bar chart to clearly show top clients.**

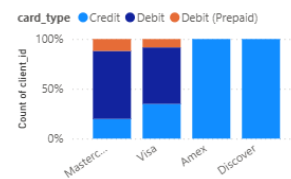


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Sum of credit_limit by client_id



Count of client_id by card_brand and card_type



card_type

☐ Credit

☐ Debit

☐ Debit (Prepaid)

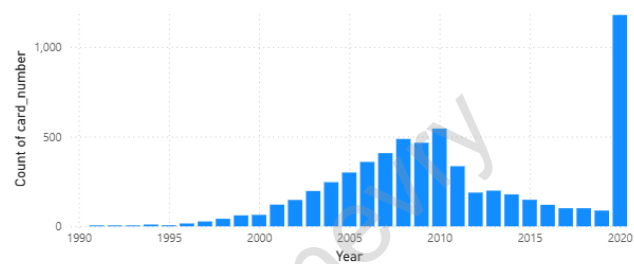
expires

7/1/1997

12/1/2024



Count of card_number by Year



card_brand	1997	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total	
Amex		1		1		2		2		2	1	8	5	2	9	6	3	6	3	8	9	6	79	57	62	53	77	402	
Discover								1		2	2	4	6	4	7	1	6	3	1	1	1	5	55	23	35	25	27	209	
Mastercard		2	2	1	1	3		6	4	19	17	20	29	30	36	46	35	42	49	59	50	66	60	682	486	459	466	539	3209
Total		3	4	2	2	7	9	8	11	28	36	39	62	62	64	97	76	84	97	101	86	122	114	1314	909	939	908	962	6146

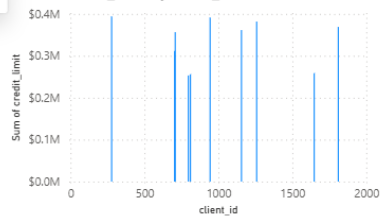
• Client Drill-through Details

- Create a drill-through page showing all card details (e.g., card_type, card_brand, limit) for a selected client_id when a user clicks from any chart.
- Add filters like card_type or expire_dates (Year).

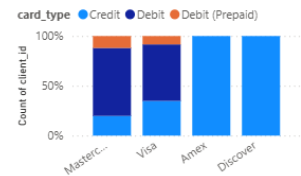


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Sum of credit_limit by client_id



Count of client_id by card_brand and card_type



card_type

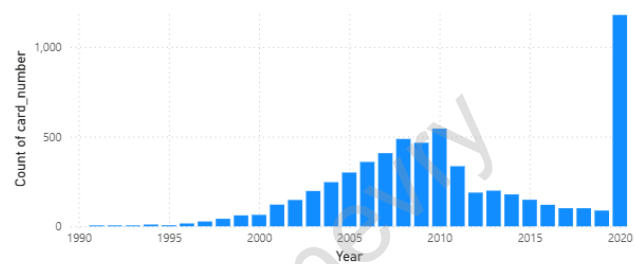
- ☐ Credit
☐ Debit
☐ Debit (Prepaid)

expires

7/1/1997 12/1/2024



Count of card_number by Year



card_brand	1997	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total	
Amex		1		1		2		2		2	1	8	5	2	9	6	3	6	3	8	9	6	79	57	62	53	77	402	
Discover								1		2	2	4	6	4	7	1	6	3	1	1	1	5	55	23	35	25	27	209	
Mastercard		2	2	1	1	3	6	4	19	17	20	29	30	36	46	35	42	49	59	50	66	60	682	486	459	466	539	3209	
Total		3	4	2	2	7	9	8	11	28	36	39	62	62	64	97	76	84	97	101	86	122	114	1314	909	939	908	962	6146



Sum of client_id	card_type	card_brand	Sum of credit_limit
403419	Credit	Amex	\$4,597,400
208083	Credit	Discover	\$2,260,600
655860	Credit	Mastercard	\$6,967,000
816663	Credit	Visa	\$9,160,700
2084025			\$22,985,700

Details for Client ID:

Selected Client

card_type

- ☒ Credit
☐ Debit
☐ Debit (Prepaid)

card_brand

- ☐ Amex
☐ Discover
☐ Mastercard
☐ Visa

- Heatmap-style Matrix of Expiry Trends
 - Rows: card_brand
 - Columns: Year of expire_dates
 - Values: Count of cards expiring

- o **Format as a matrix with conditional formatting to highlight peaks (red for more expiries).**

