1. Total Card Limit by Card Brand and Card Type (Stacked Column Chart)
X-Axis: card_brand
Y-Axis: Sum of credit_limit
Legend: card_type
Tooltip: Count of client_id

2. Drill Down into Monthly Trends
Hierarchy: Year > Month
Values: Count of card_number
Visual: Stacked Column Chart

3. Top 10 Clients by Total Card Limit
X-Axis: client_id
Y-Axis: Total credit_limit
Filter: Top 10
Sort: Descending

4. Client Drill-through Details
Fields: card_type, card_brand, credit_limit, expire_dates
Drill-through: client_id
Slicers: card_type, Year of expire_dates

5. Heatmap-style Matrix of Expiry Trends
Rows: card_brand
Columns: Year of expire_dates
Values: Count of card_number
Conditional Formatting: Red color for high expiry count

6. Dynamic Slicer for Top N Card Brands
What-If Parameter: Top N Brands
X-Axis: card_brand
Y-Axis: Top N Card Limit
Slicer: Top N Brands Value

Table view

	card_brand	Sum of credit_limit	expires
	Amex	$9,400	Monday, February 01, 1999
Credit	Amex	$11,600	Saturday, December 01, 2001
Credit	Amex	$16,500	Monday, September 01, 2003
Credit	Amex	$9,800	Saturday, November 01, 2003
Credit	Amex	$6,800	Friday, April 01, 2005
Credit	Amex	$500	Saturday, October 01, 2005
Credit	Amex	$3,900	Sunday, April 01, 2007
Credit	Amex	$13,600	Tuesday, May 01, 2007
Credit	Amex	$6,200	Friday, August 01, 2008
Credit	Amex	$20,600	Wednesday, April 01, 2009
Credit	Amex	$19,600	Friday, May 01, 2009
Credit	Amex	$9,900	Saturday, August 01, 2009
Credit	Amex	$16,600	Tuesday, September 01, 2009
Credit	Amex	$2,200	Sunday, November 01, 2009
Credit	Amex	$12,300	Tuesday, December 01, 2009
Credit	Amex	$14,400	Thursday, July 01, 2010
Credit	Amex	$13,900	Sunday, August 01, 2010
Credit	Amex	$29,100	Wednesday, September 01, 2010
Credit	Amex	$5,900	Monday, November 01, 2010
Credit	Amex	$11,100	Tuesday, February 01, 2011
Credit	Amex	$8,100	Saturday, October 01, 2011
Total		**$88,179,698**	

Parameter

11

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card_type

☐ Credit
☐ Debit
☐ Debit (Prepaid)

YEAR

1997   2024

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card_brand	1997	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Amex		1		1		2		2		2	1	8	5
Discover									1	2	2	4	6
Mastercard	2	2	1	1	3		6	4	19	17	20	29	30
Visa	1	1	1		4	7	2	4	9	15	16	21	21
Total	**3**	**4**	**2**	**2**	**7**	**9**	**8**	**11**	**28**	**36**	**39**	**62**	**62**

Top N Card Limit by card_brand

Bar chart — card_brand (y-axis) vs Top N Card Limit (x-axis, $0M to $40M):

- Mastercard
- Visa
- Amex
- Discover