

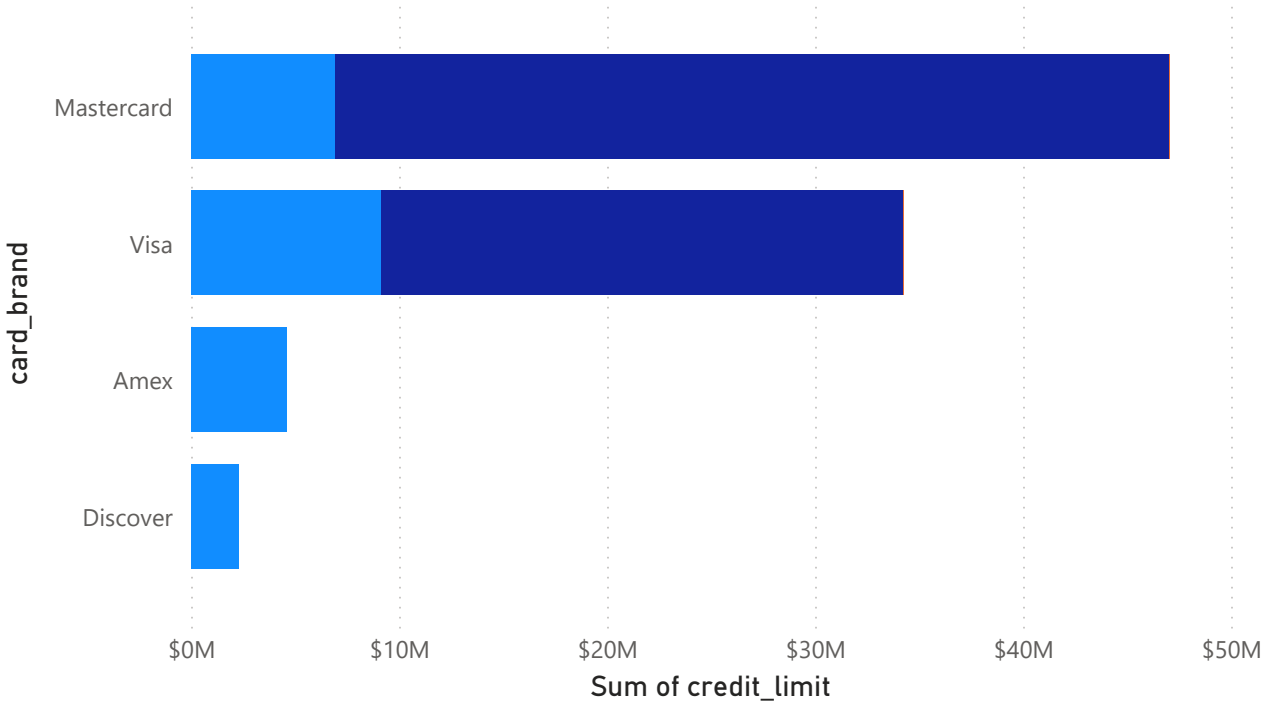
Topic: Advanced Charting Techniques

Prerequisites: Download Card_data.csv file and disable Auto DateTime options by Options in Current File and create new DATE table by using Calendarauto and Format functions.

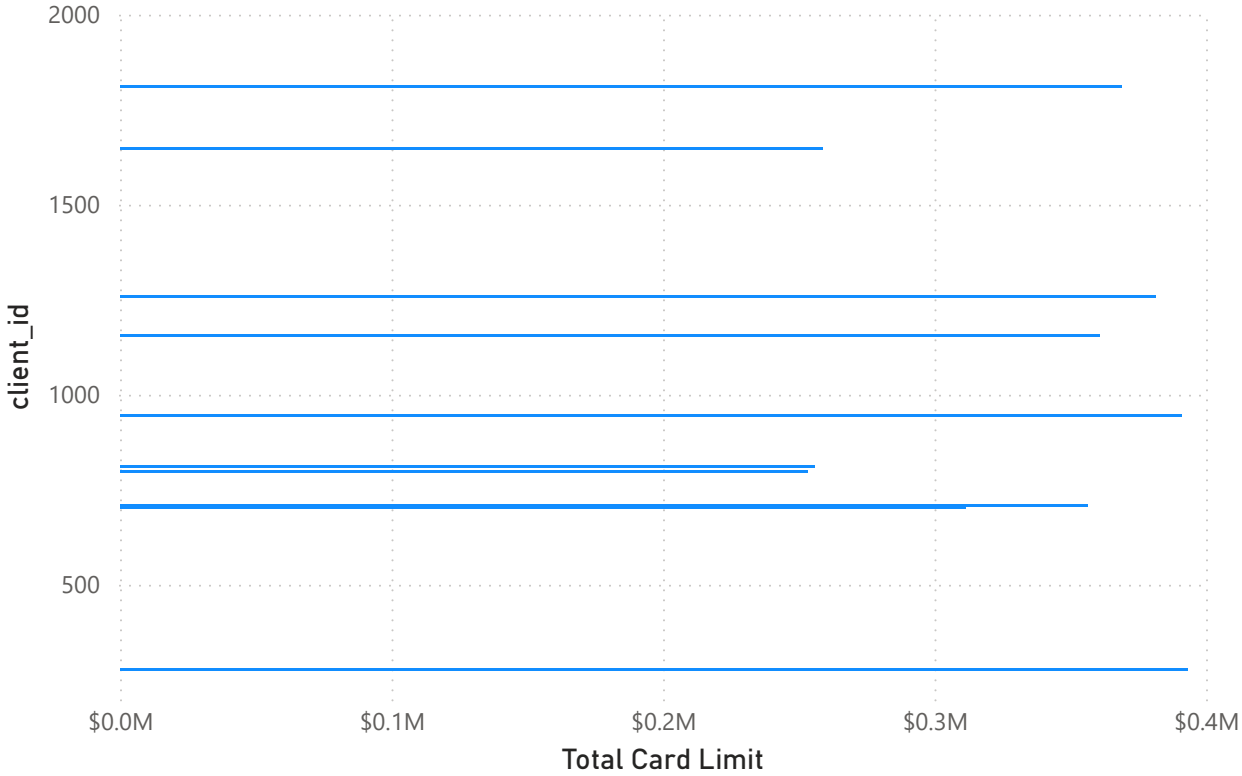
- Total Card Limit by Card Brand and Card Type (Stacked Column Chart)
 - X-axis: card_brand (e.g., Visa, Mastercard, Amex)
 - Y-axis: Sum of card_limit
 - Legend: card_type (e.g., Credit, Debit, Prepaid)
 - Tooltip: client_id count (i.e., number of clients using this brand/type combo)
 - Drill Down into 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.
 - 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.
 - 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).
 - Heatmap-style Matrix of Expiry Trends
 - Rows: card_brand
 - Columns: Year of expire_dates
 - Values: Count of cards expiring
 - Format as a matrix with conditional formatting to highlight peaks (red for more expiries).
1. Create a dynamic slicer which will give options to select or to enter number and bar chart or column chart need to show only Top N (N should be selected by user in dynamic slicer) Card Brands according to their card limit (column chart)

Sum of credit_limit and Count of client_id by card_brand and card_type

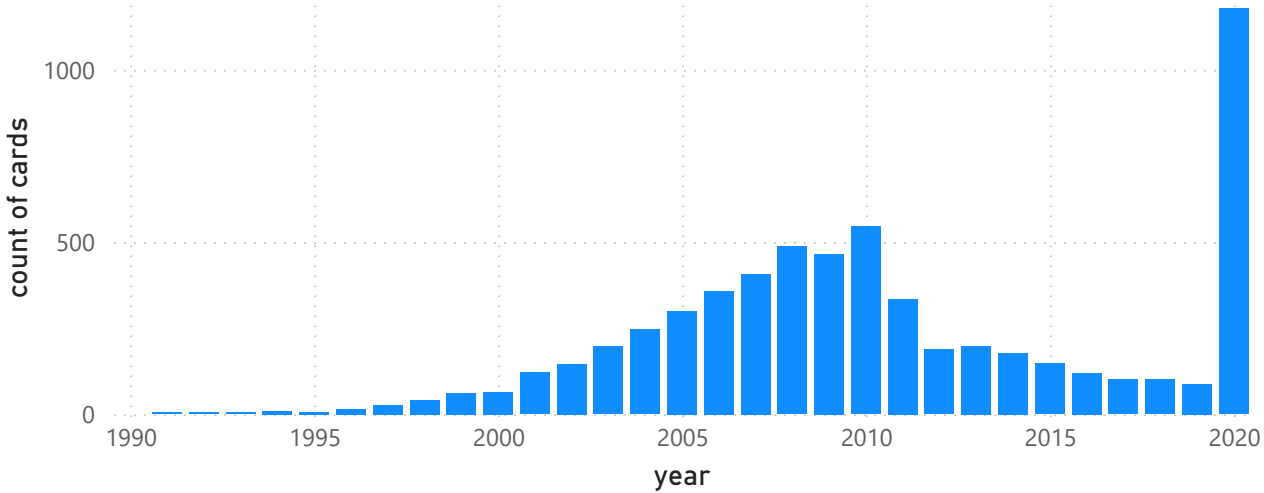
card_type ●Credit ●Debit ●Debit (Prepaid)



Total Card Limit by client_id



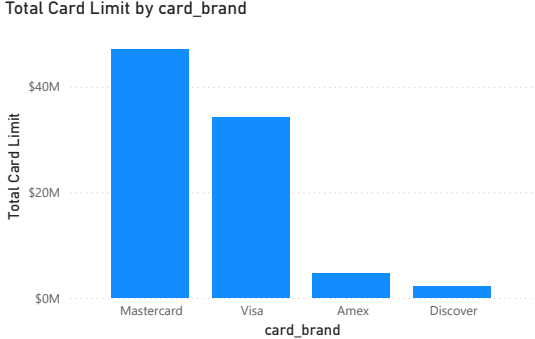
count of cards by year





card_number	card_type	card_brand
300105541992311	Credit	Amex
300609782832003	Credit	Amex
300717031458937	Credit	Amex
302014253634948	Credit	Amex
302031764623099	Credit	Amex
302128691810206	Credit	Amex
302324154583308	Credit	Amex
302701760602871	Credit	Amex
302737588175602	Credit	Amex
302982223076555	Credit	Amex
303084720106463	Credit	Amex
303388287085492	Credit	Amex

Total



card_type

Credit

Debit (Prepaid)

Debit

Expire Year

1997

2024

card_brand	1997	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Amex		1		1		2		2		2	1	8	5	2	9	6
Discover								1		2	2	4	6	4	7	1
Mastercard	2	2	1	1	3		6	4	19	17	20	29	30	36	46	35
Visa	1	1	1		4	7	2	4	9	15	16	21	21	22	35	34
Total	3	4	2	2	7	9	8	11	28	36	39	62	62	64	97	76

8.53

Average Days Between Sales

Value

All