Lesson-16

Topic: Advanced Charting Techniques

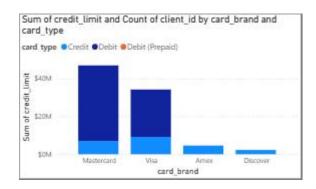
Prerequisites: Download Card_data.csv file and disable Auto DateTime options by Options in Current File and create new DATE table by using Calendarauto and Format functions.

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Total Card Limit by Card Brand and Card Type (Stacked Column Chart)

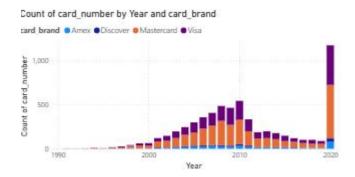
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- X-axis: card_brand (e.g., Visa, Mastercard, Amex)
- Y-axis: Sum of card_limit
- Legend: card_type (e.g., Credit, Debit, Prepaid)
- Tooltip: client_id count (i.e., number of clients using this brand/type combo)



Drill Down into Monthly Trends (Drill Down Feature)

- o 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)

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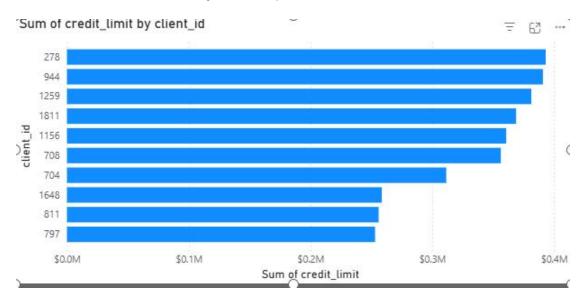
Axis: client_id

Value: Total card_limit

o Filter: Top 10 clients

Sort: Descending by total card limit

Use a bar chart to clearly show top clients.

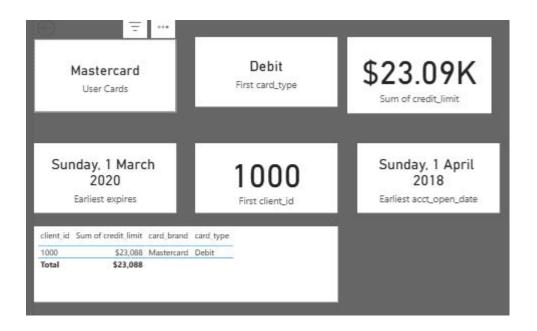


Client Drill-through Details

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- 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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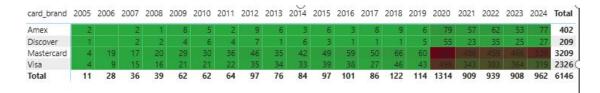
Heatmap-style Matrix of Expiry Trends

Rows: card_brand

o Columns: Year of expire_dates

Values: Count of cards expiring

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



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)

1.

o X axis: Card Brand

Y axis: Sum of Card Limit



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

2.

 Calculate Average number of days between Sales date and previous sales date for each customer

last sales date 05.05.2025, prev sales date 05.01.2025, sales before prev sales date 04.21.2025

Answer: 7 (4 + 10) / 2)

CustomerID	Average Days BetweenSales
101	11.33
102	17.00
103	17.33
104	3.00
105	13.00
106	20,67
107	33.33
108	21.00
109	10.50
110	18.33
111	28.67
Total	19.14