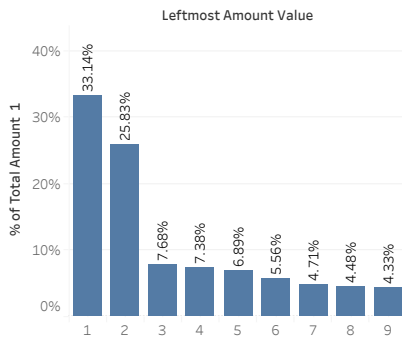
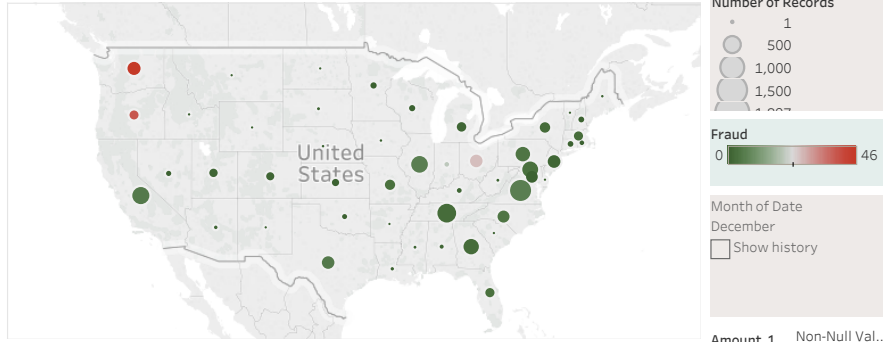


DATA ANALYSIS

Benford's Law



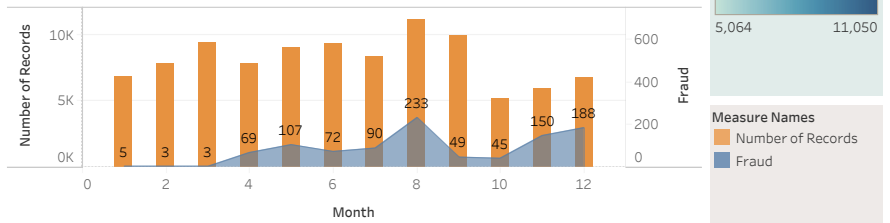
Transaction Counts - Fraud Map - *December*



Monthly Transactions Distribution

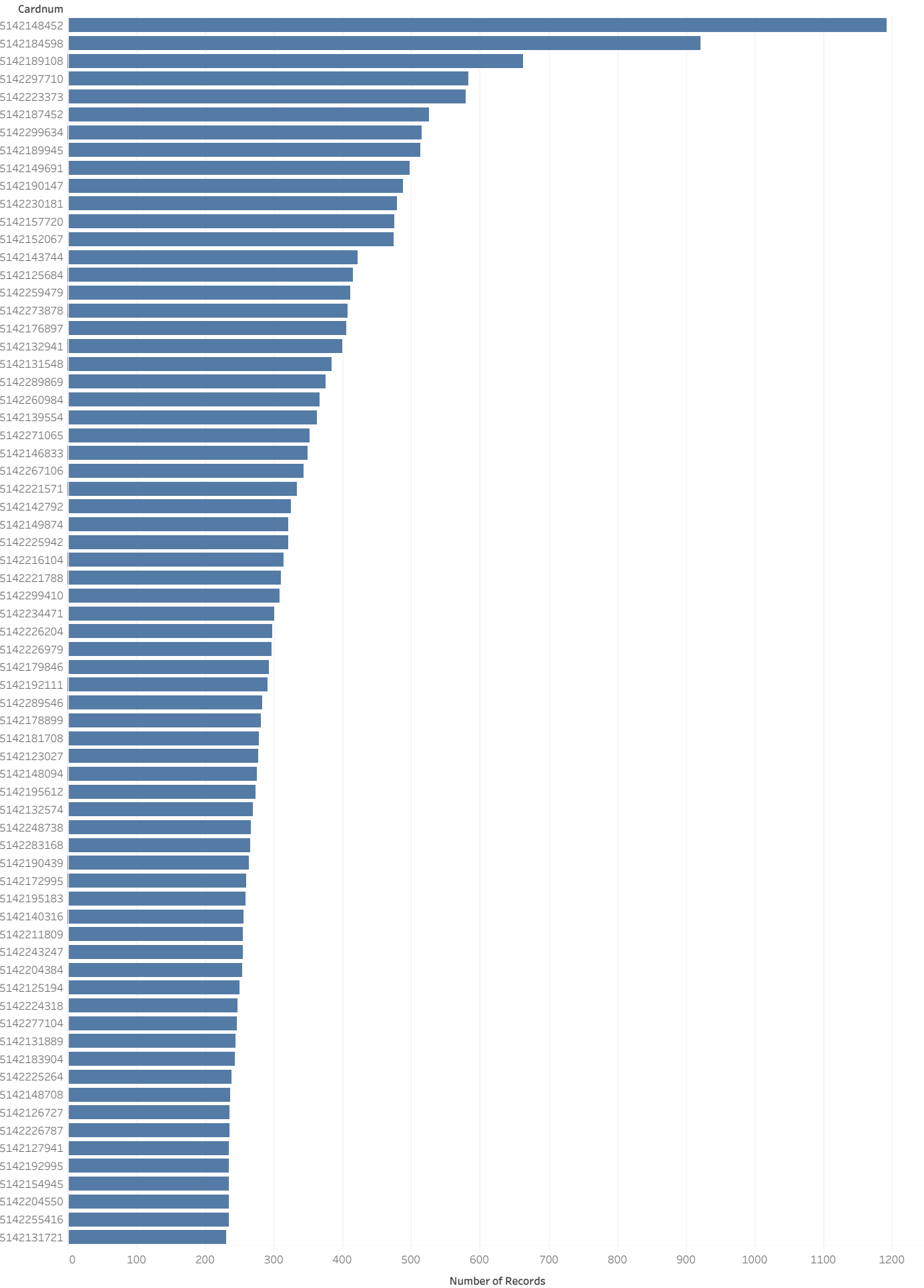
August 11,050	June 9,249		April 7,731
September 9,857	May 8,943		
March 9,370	July 8,296		

Monthly Frauds/Transactions Distribution



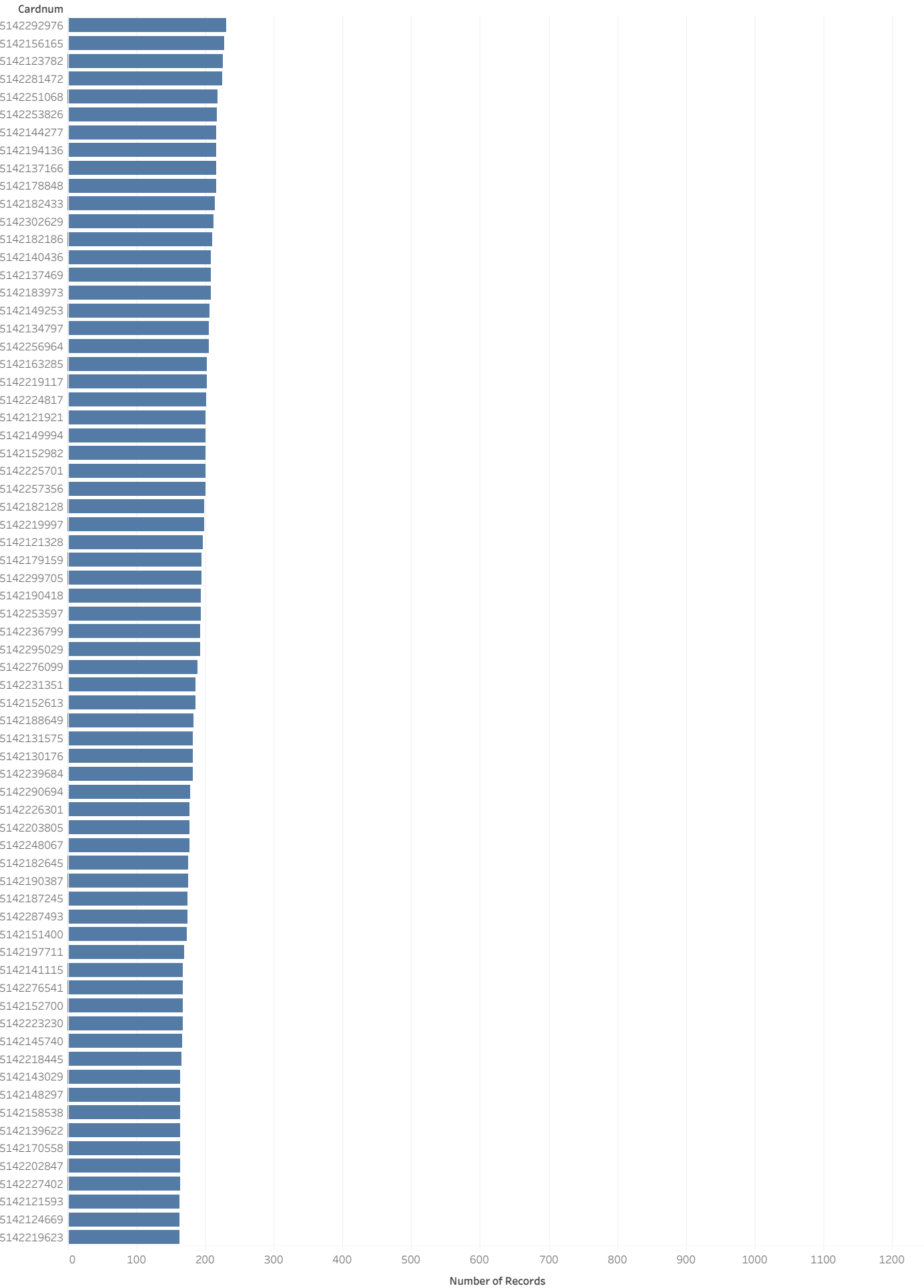
<https://public.tableau.com/profile/weichen.zhang#!/vizhome/DSO562Project3/DataAnalysis>

Cardnum



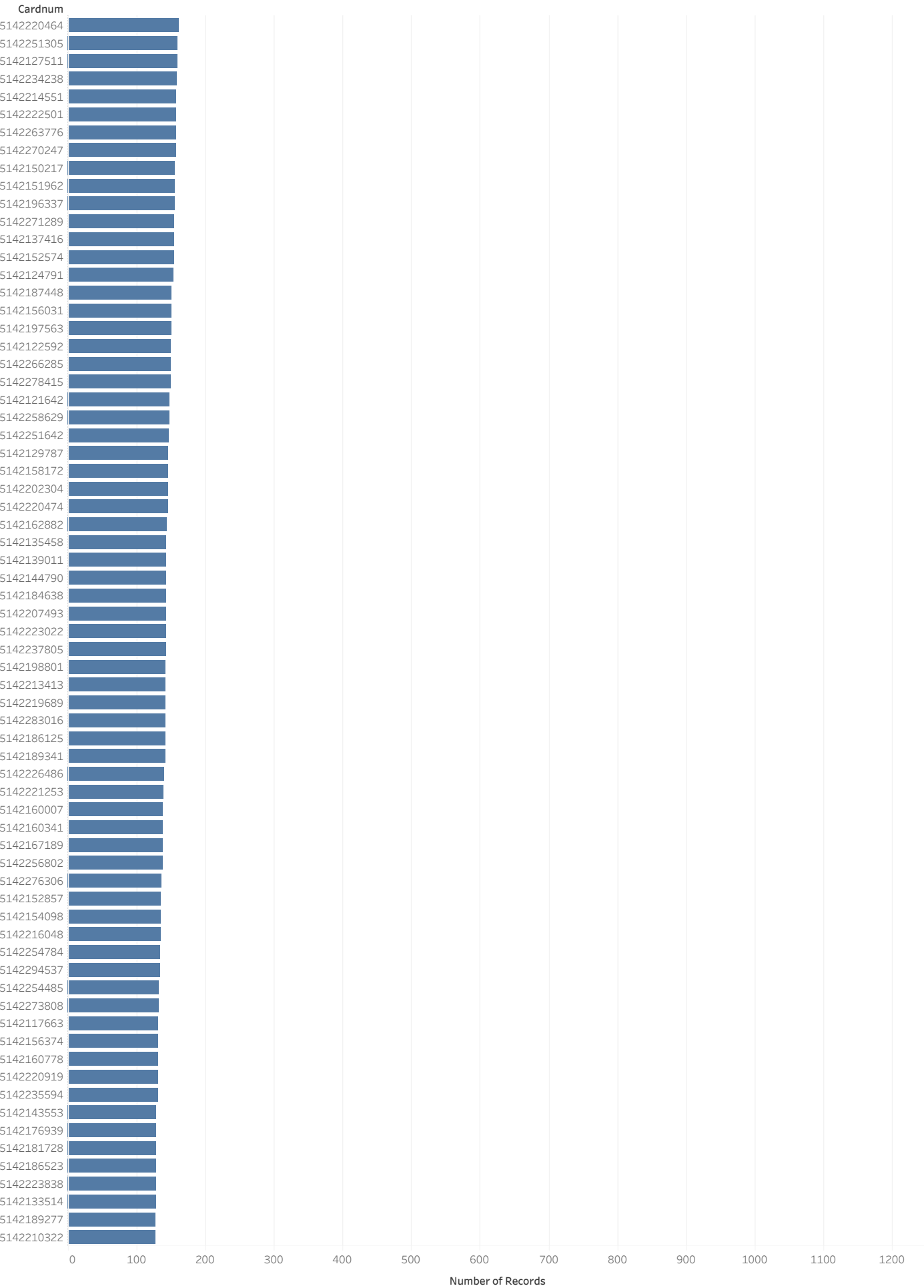
Sum of Number of Records for each Cardnum.

Cardnum



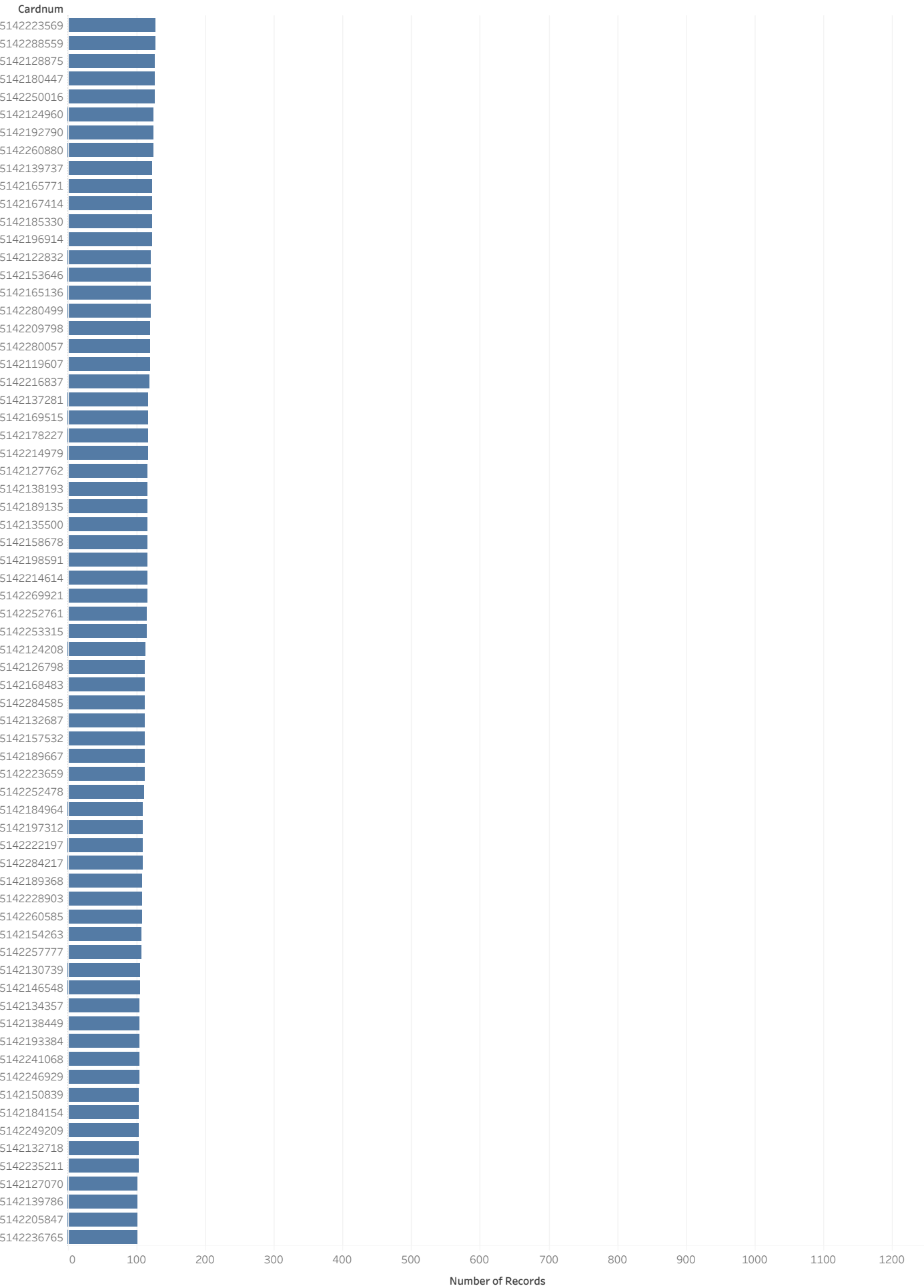
Sum of Number of Records for each Cardnum.

Cardnum



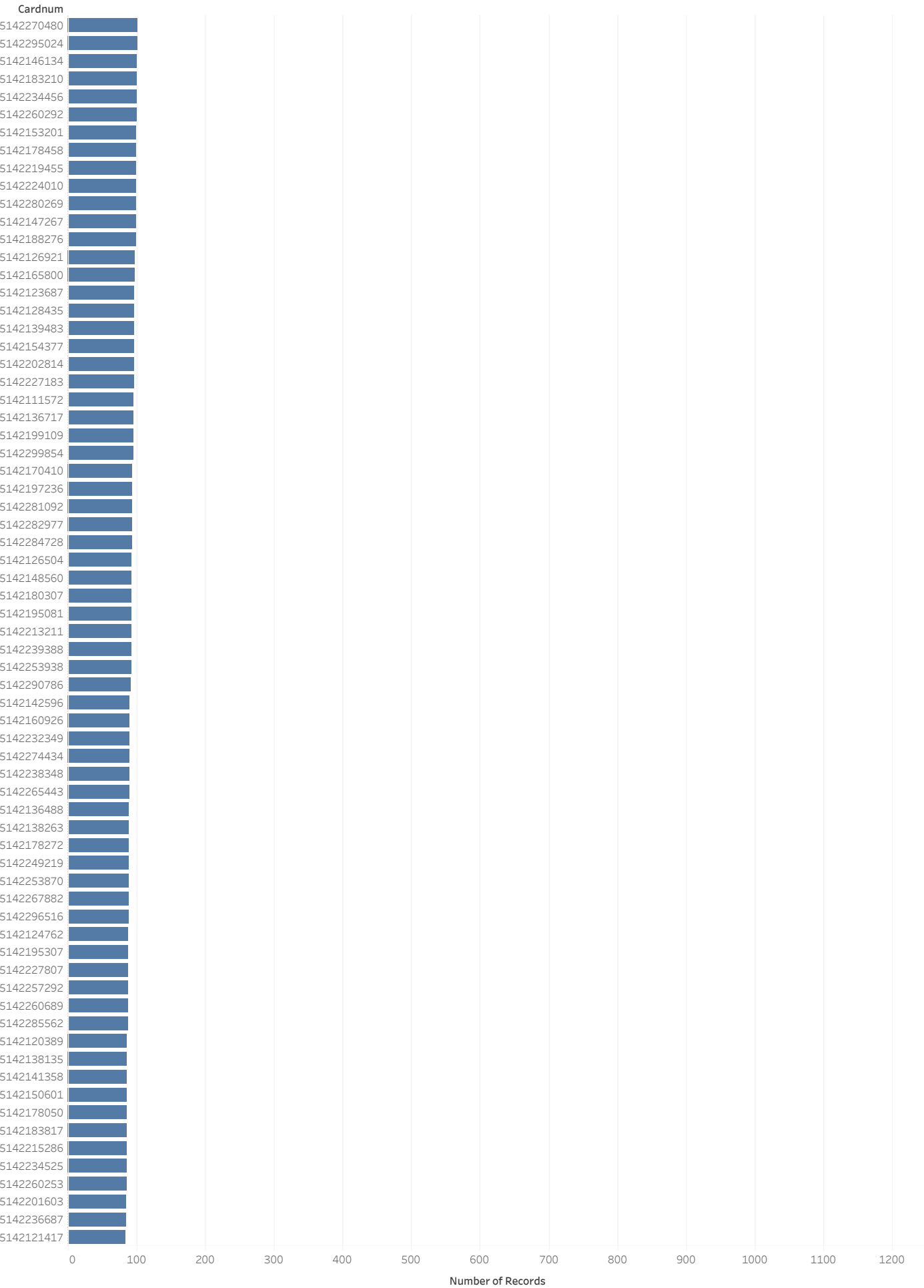
Sum of Number of Records for each Cardnum.

Cardnum



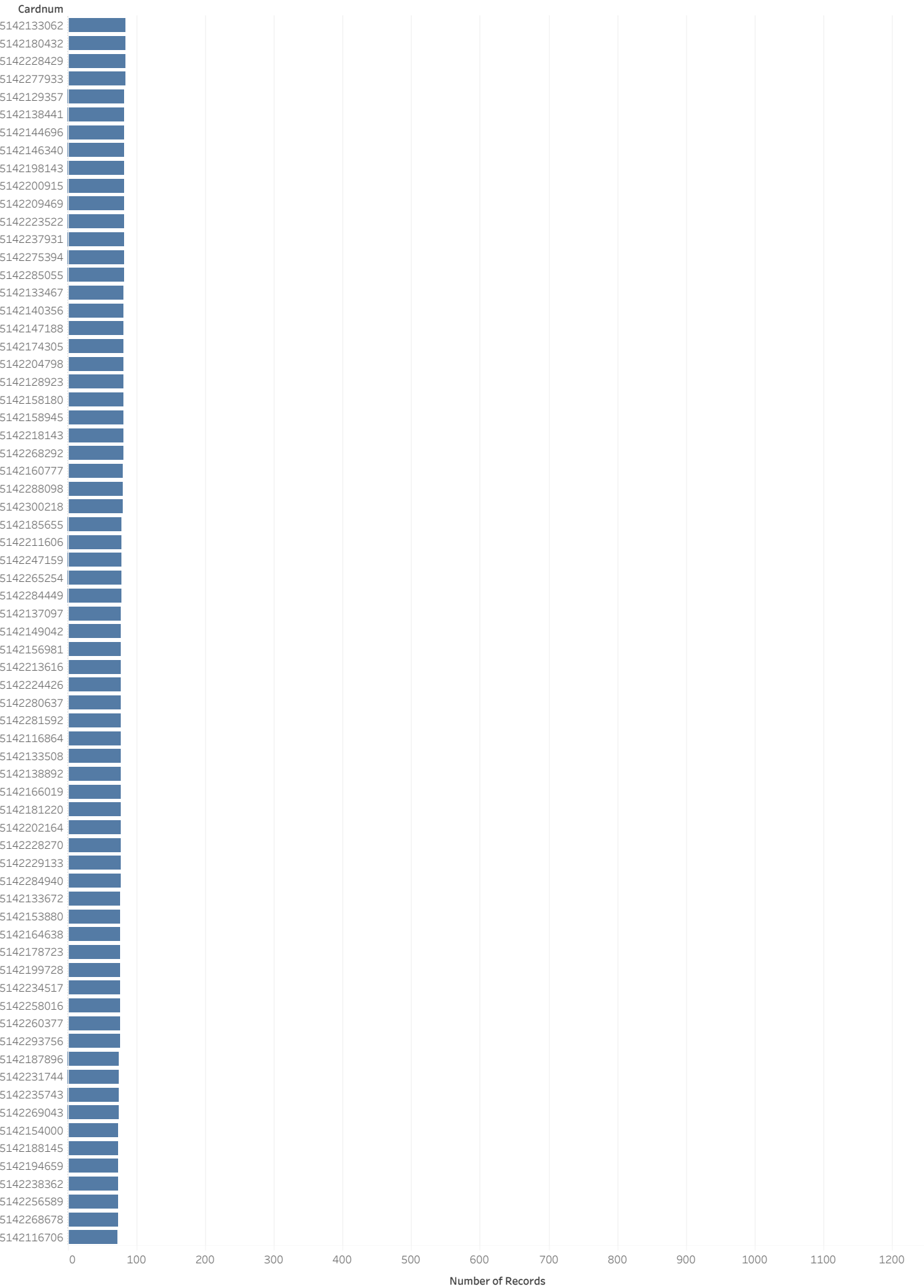
Sum of Number of Records for each Cardnum.

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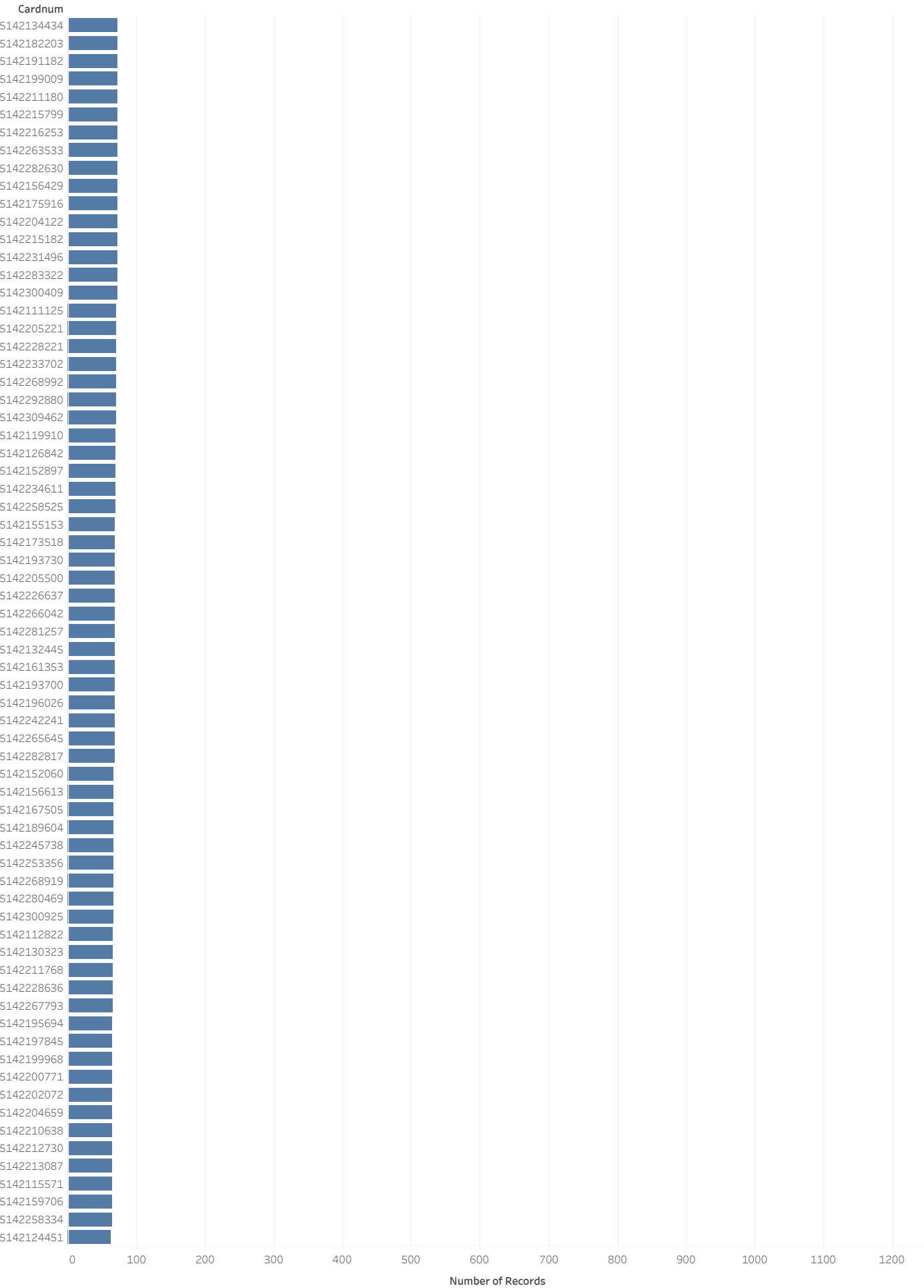
Sum of Number of Records for each Cardnum.

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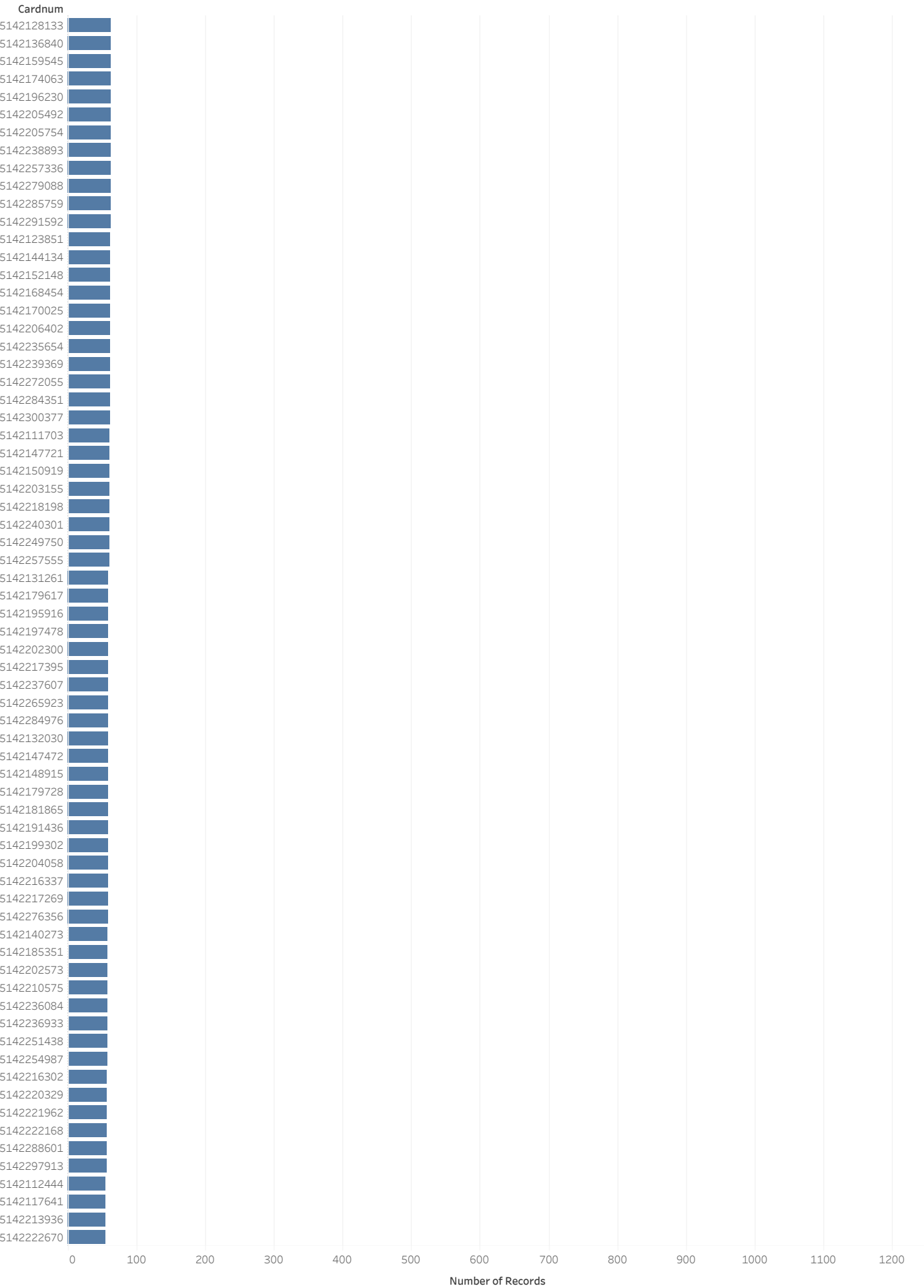
Sum of Number of Records for each Cardnum.

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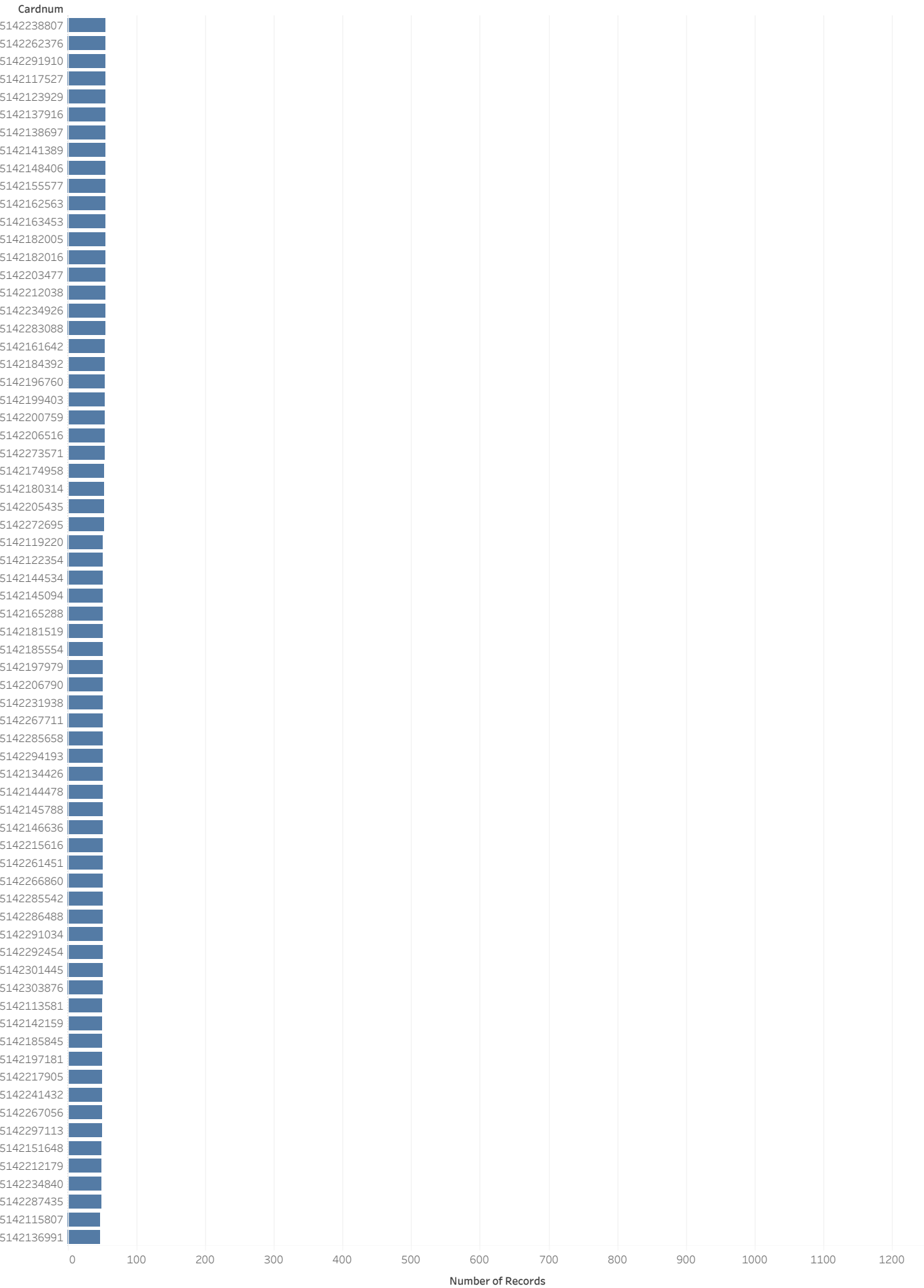
Sum of Number of Records for each Cardnum.

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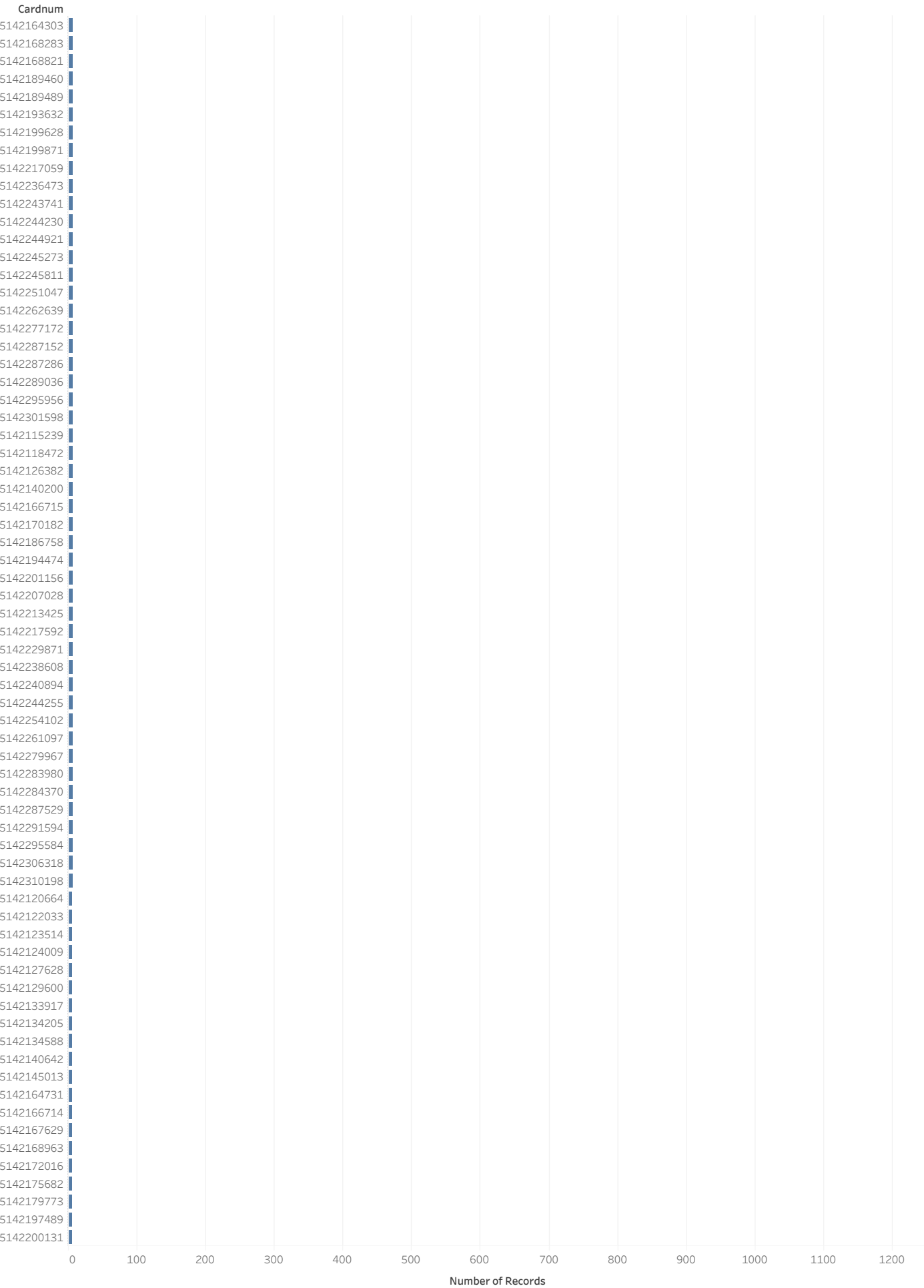
Sum of Number of Records for each Cardnum.

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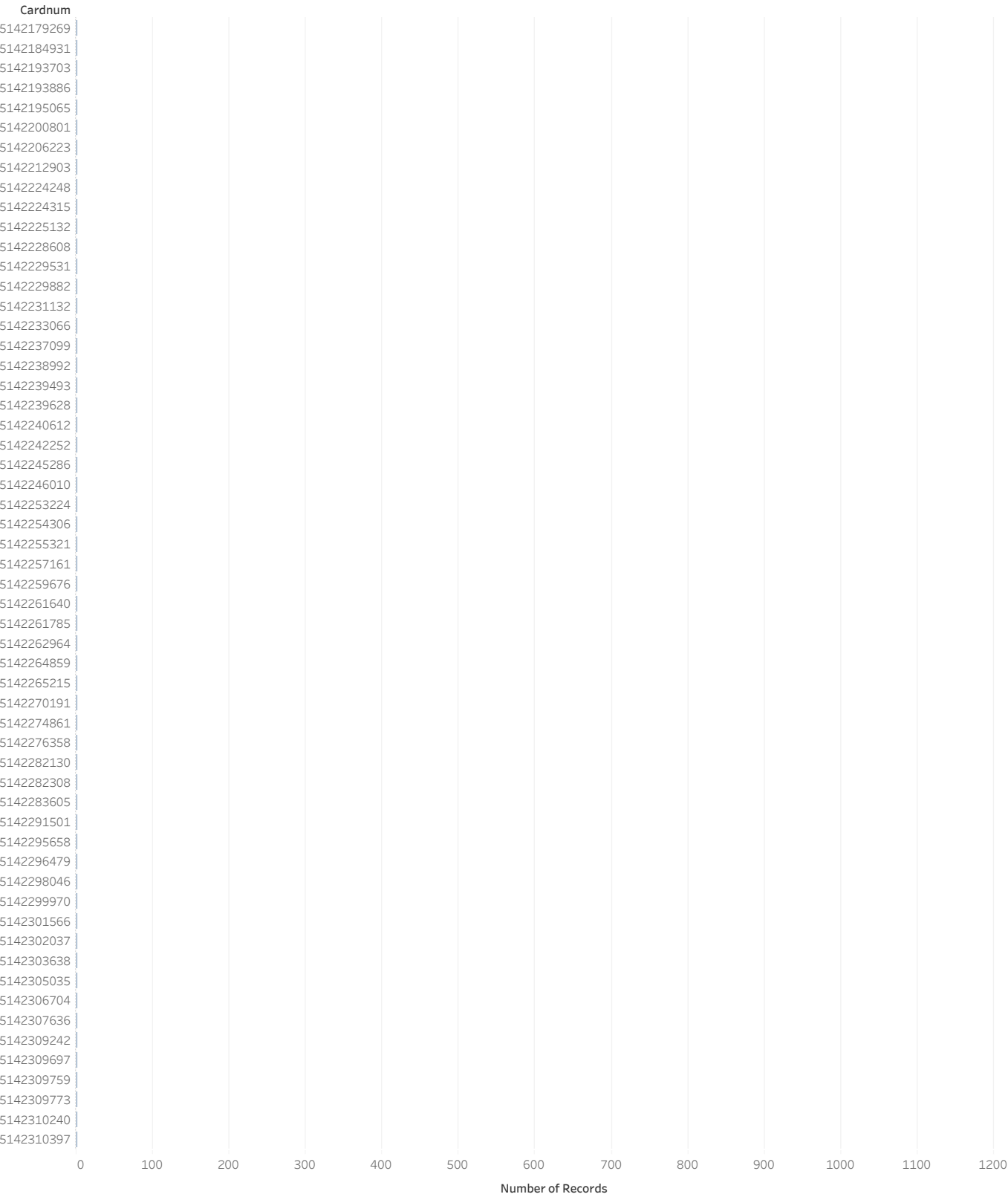
Sum of Number of Records for each Cardnum.

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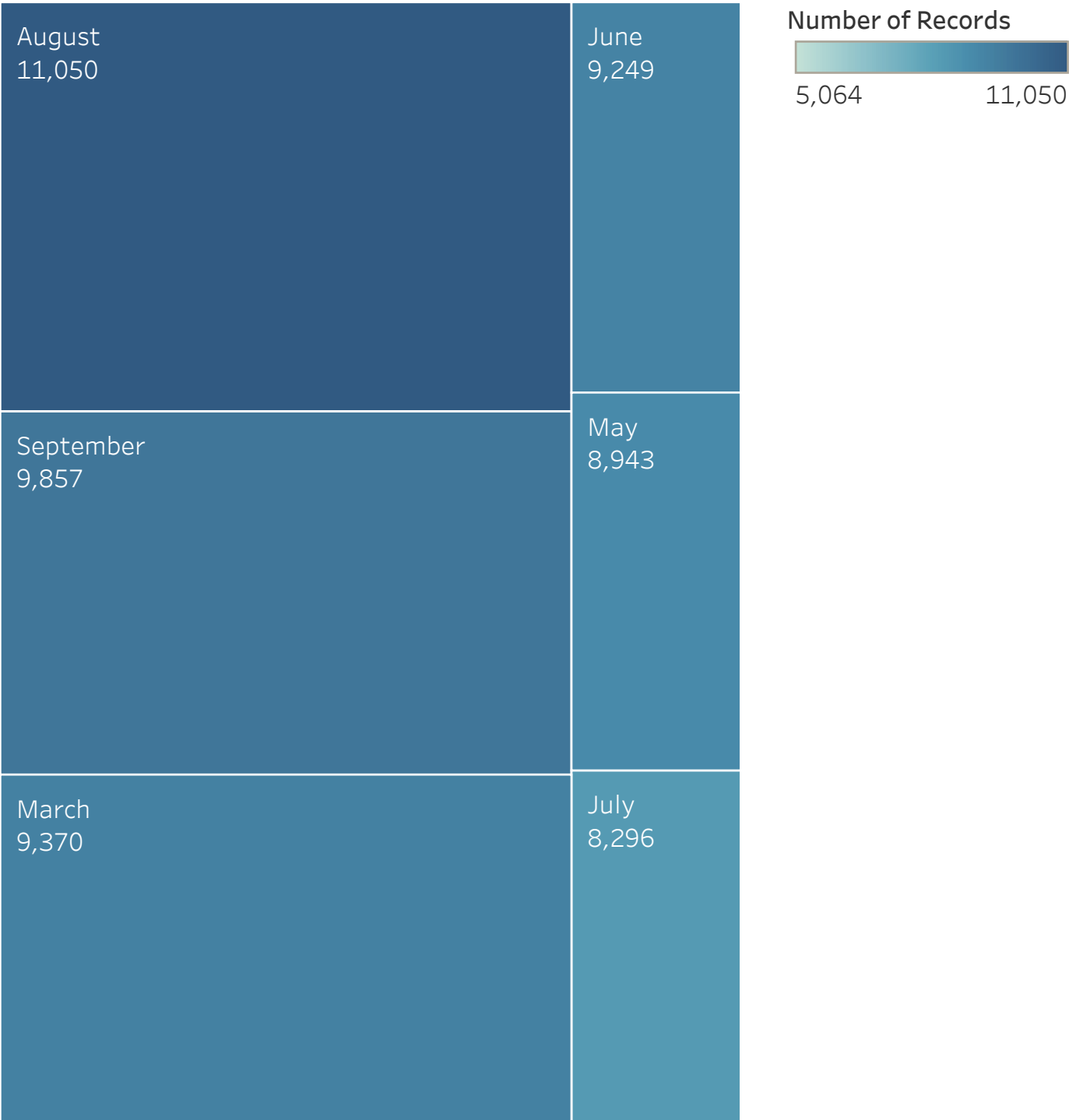
Sum of Number of Records for each Cardnum.

Cardnum



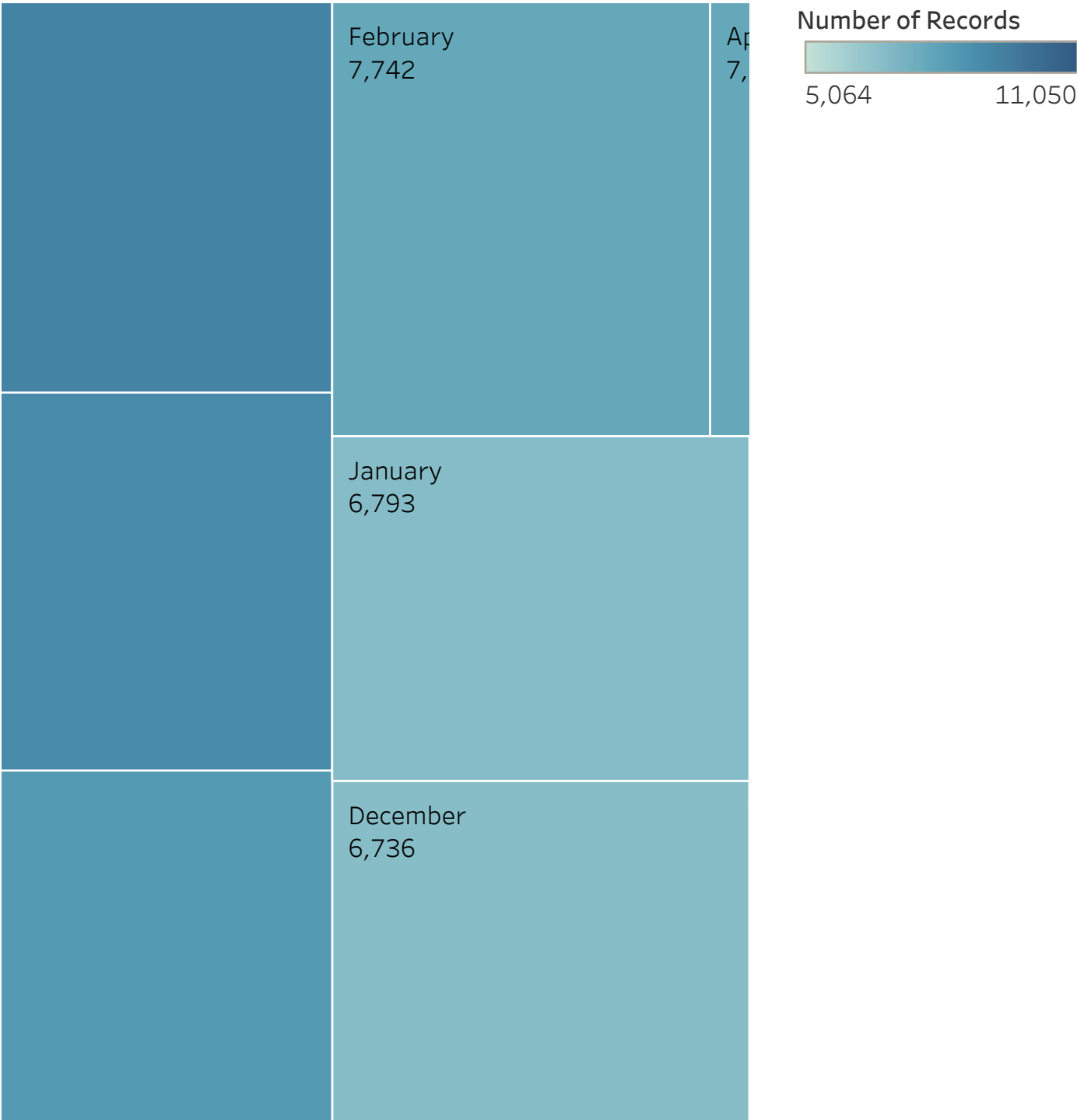
Sum of Number of Records for each Cardnum.

Monthly Transactions Distribution



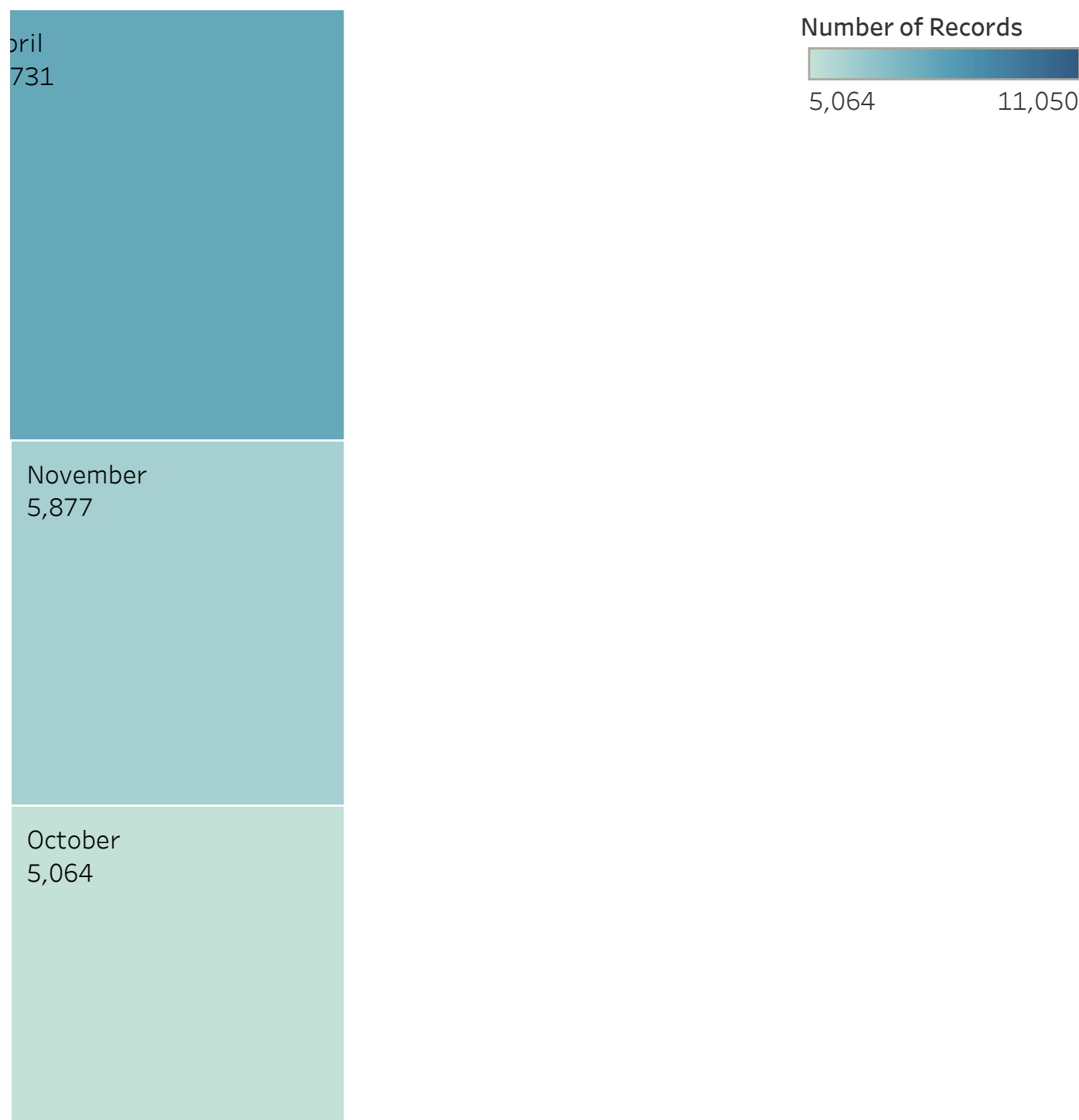
Date Month and sum of Number of Records. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Date Month and sum of Number of Records.

Monthly Transactions Distribution



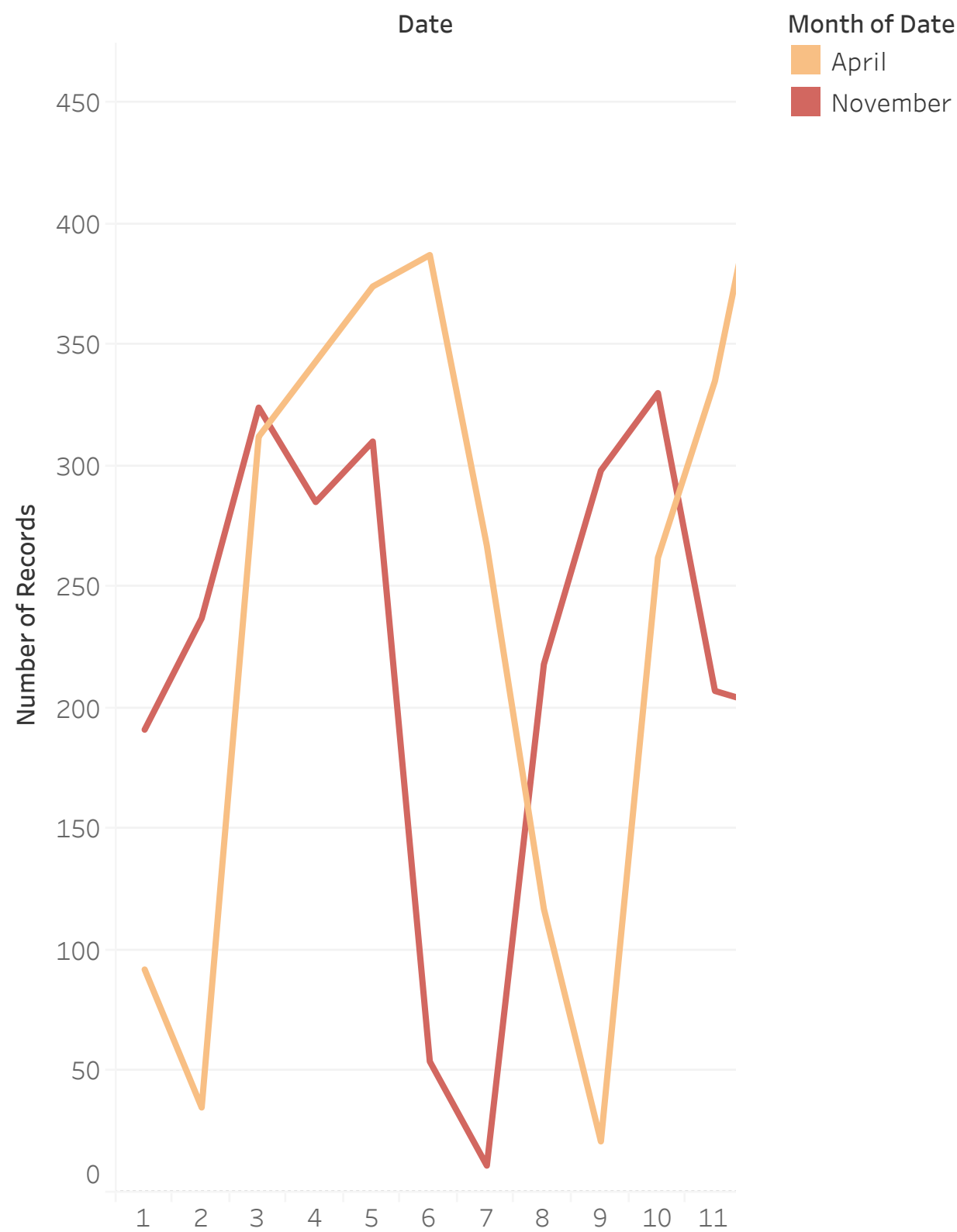
Date Month and sum of Number of Records. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Date Month and sum of Number of Records.

Monthly Transactions Distribution



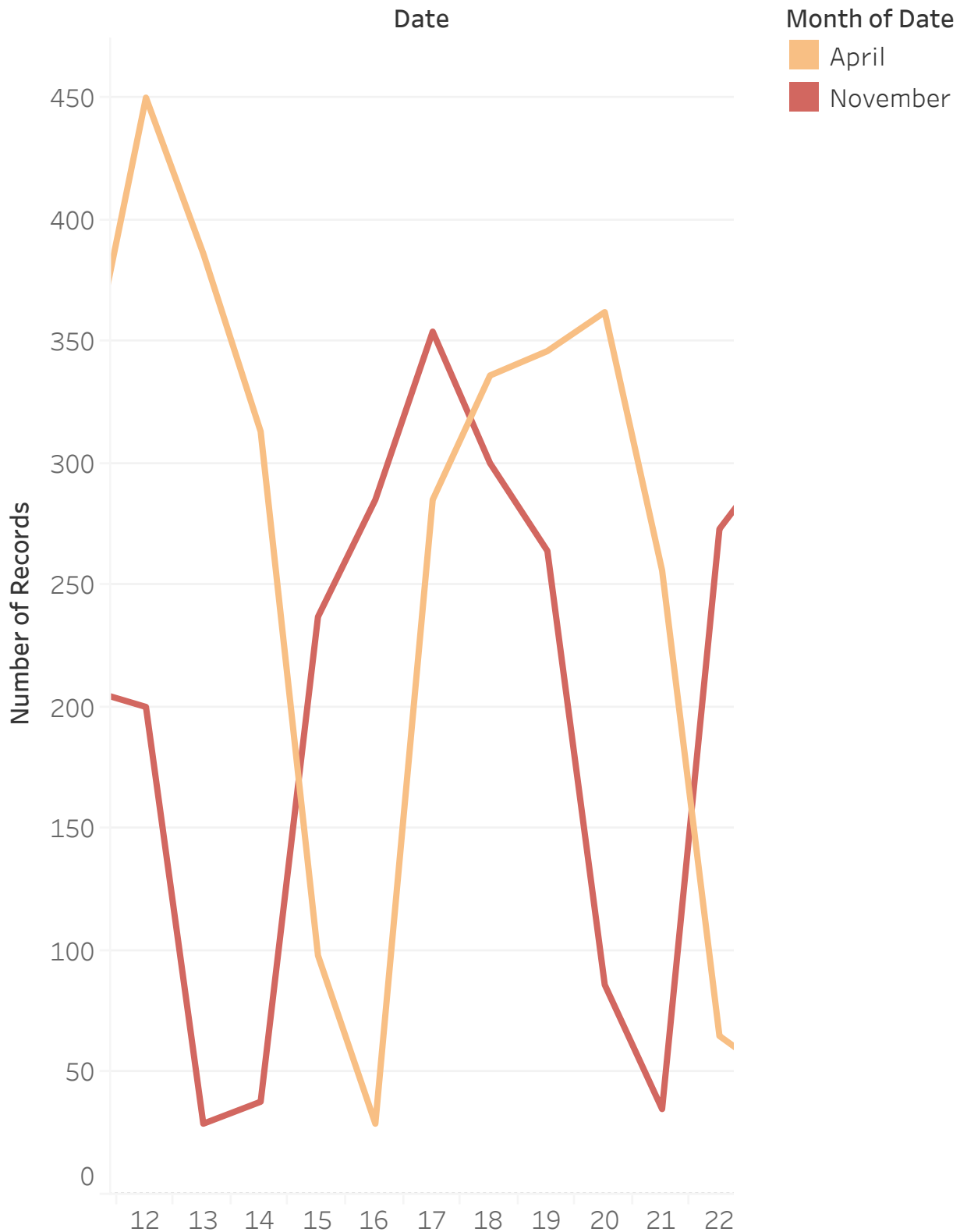
Date Month and sum of Number of Records. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Date Month and sum of Number of Records.

Seasonality



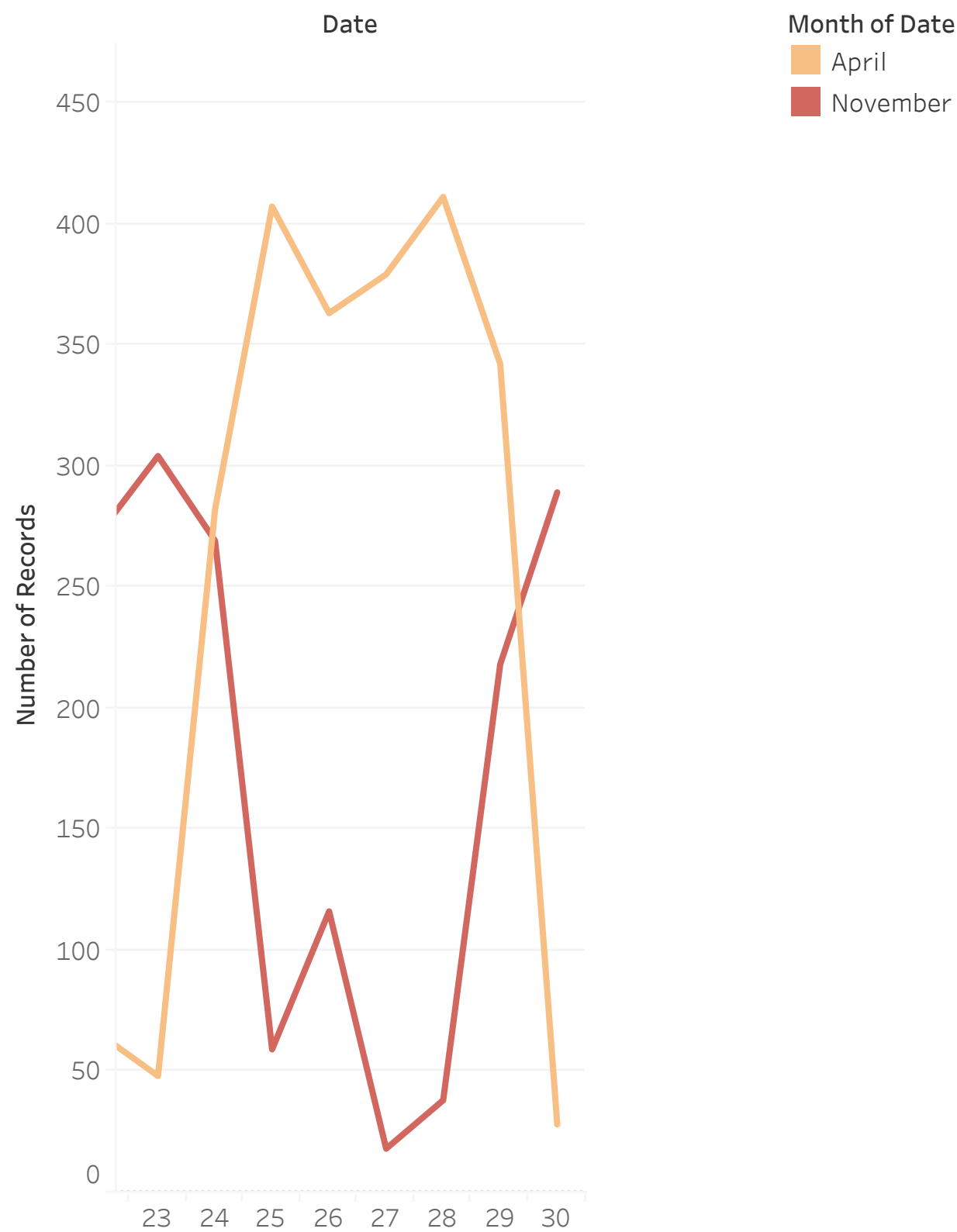
The trend of sum of Number of Records (actual & forecast) for Date Day. Color shows details about Date Month. The view is filtered on Date Month, which keeps April and November.

Seasonality



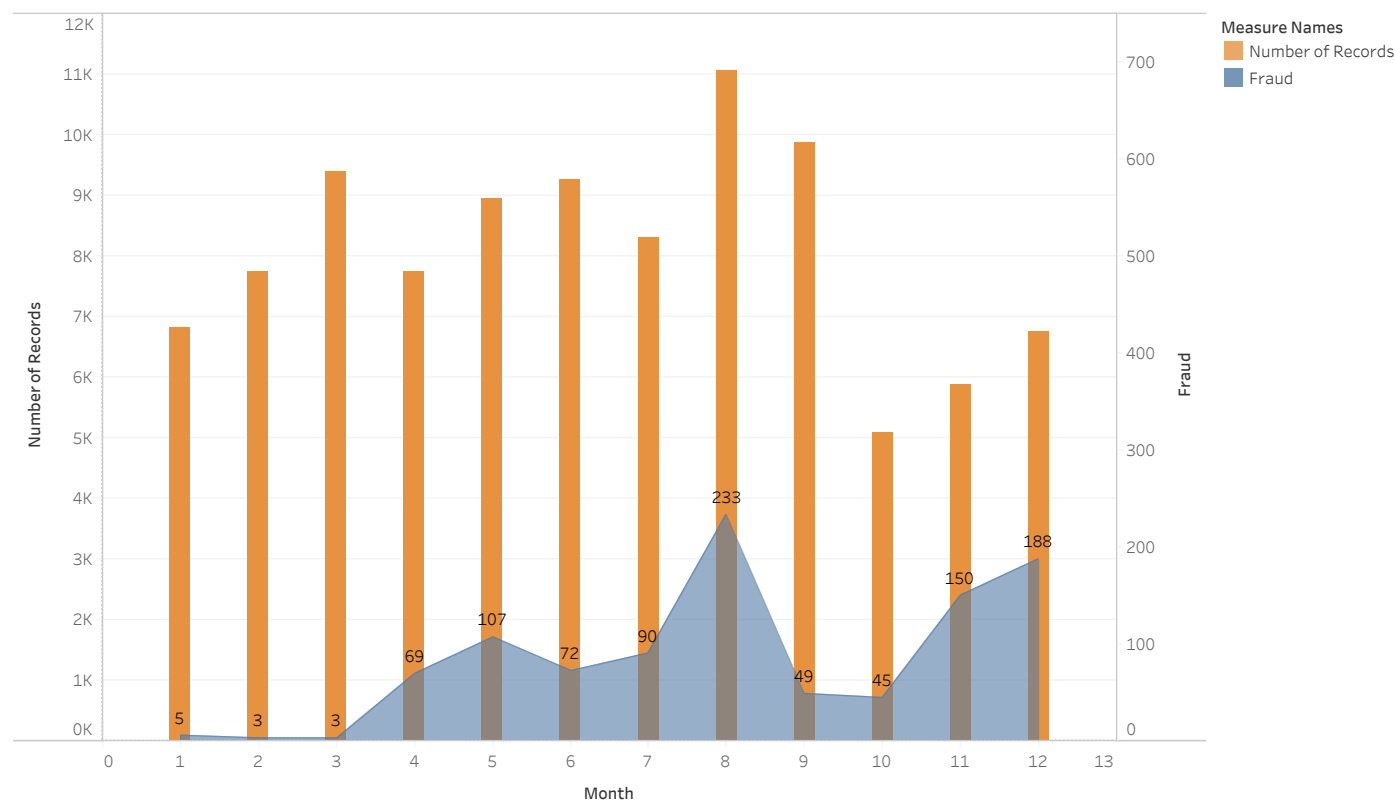
The trend of sum of Number of Records (actual & forecast) for Date Day. Color shows details about Date Month. The view is filtered on Date Month, which keeps April and November.

Seasonality



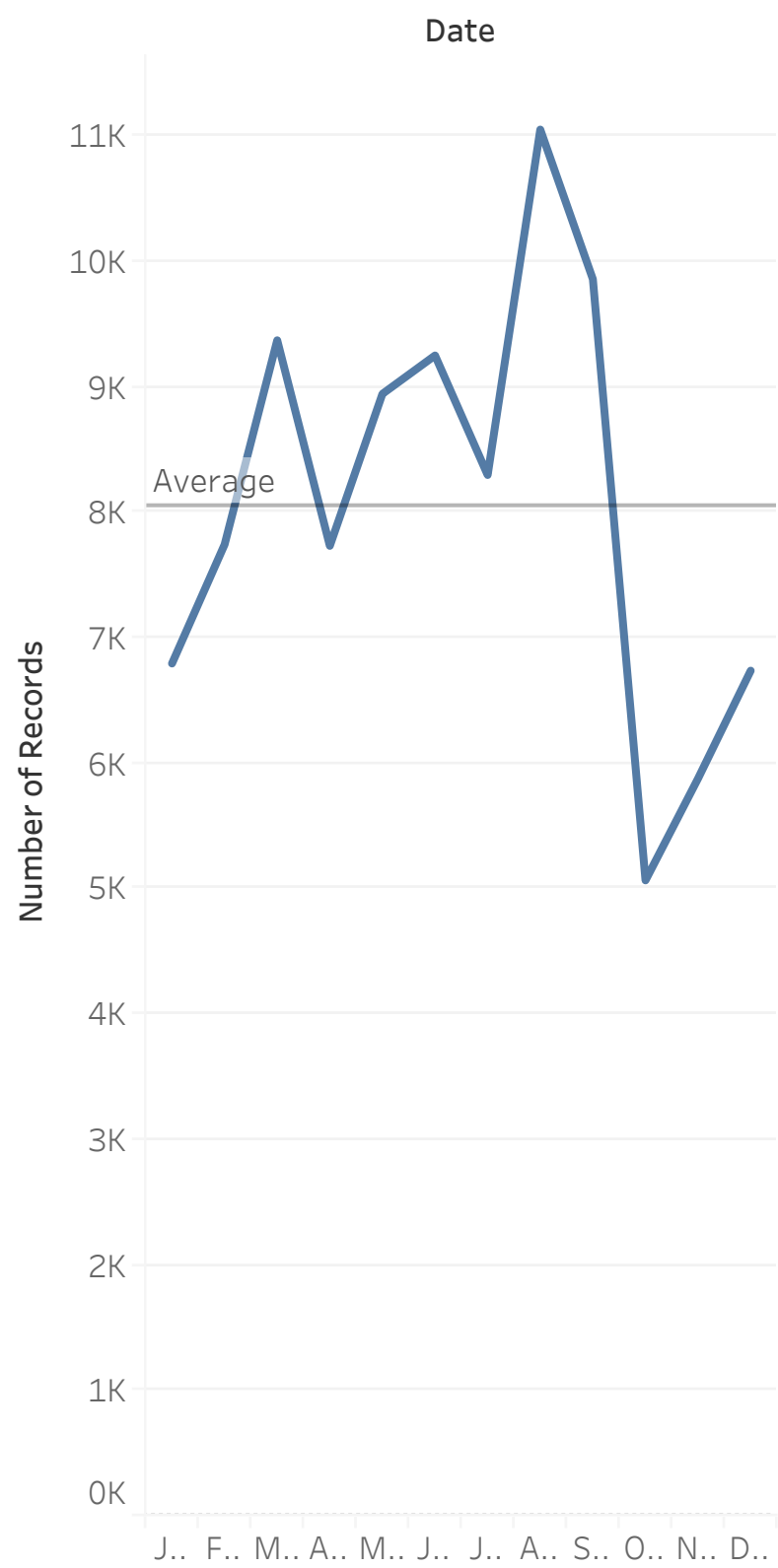
The trend of sum of Number of Records (actual & forecast) for Date Day. Color shows details about Date Month. The view is filtered on Date Month, which keeps April and November.

Mothly Frauds/Transactions Distribution



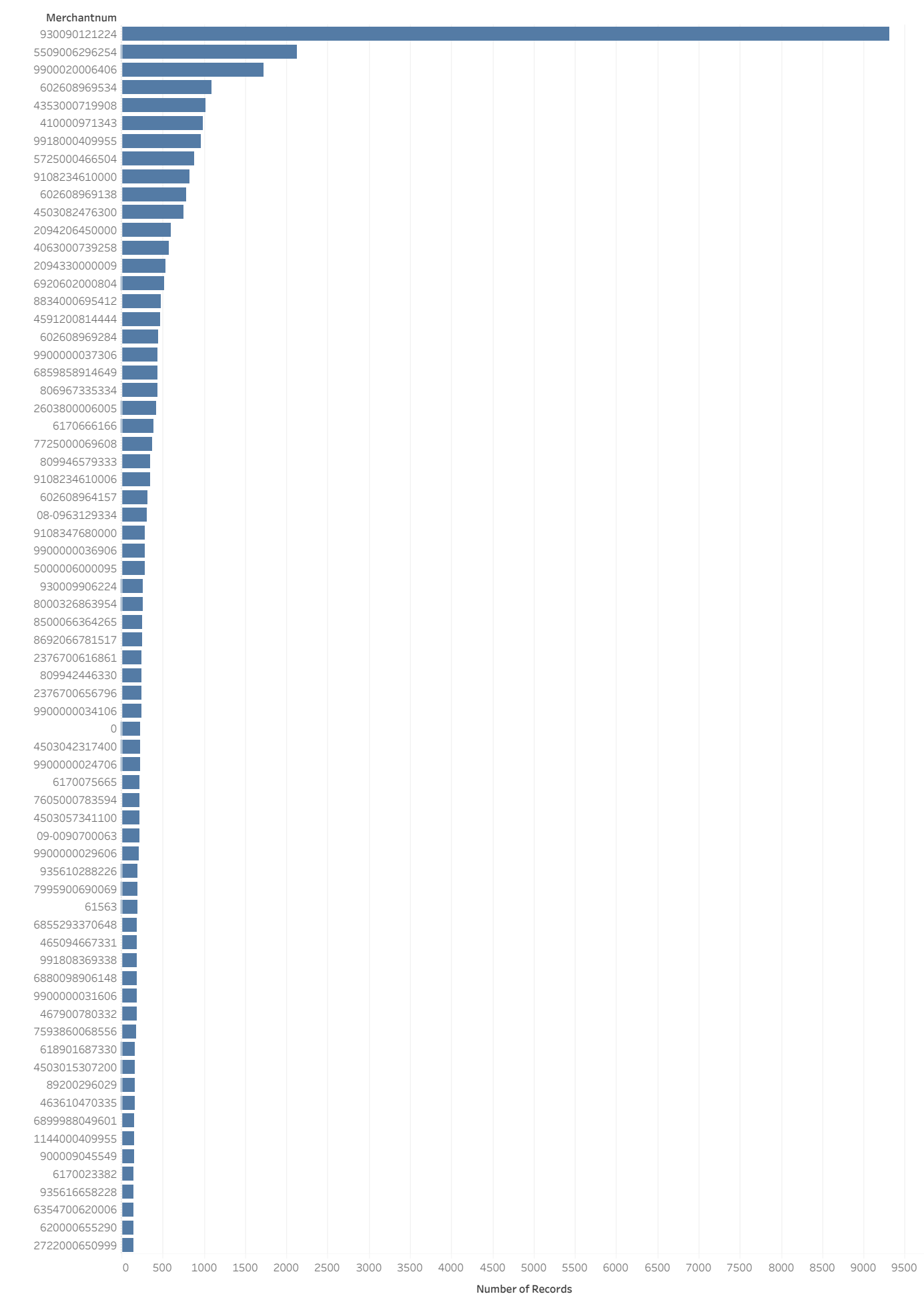
The plots of Number of Records and Fraud for Date Month. Color shows details about Number of Records and Fraud. For pane Sum of Fraud: The marks are labeled by Fraud.

Date_2



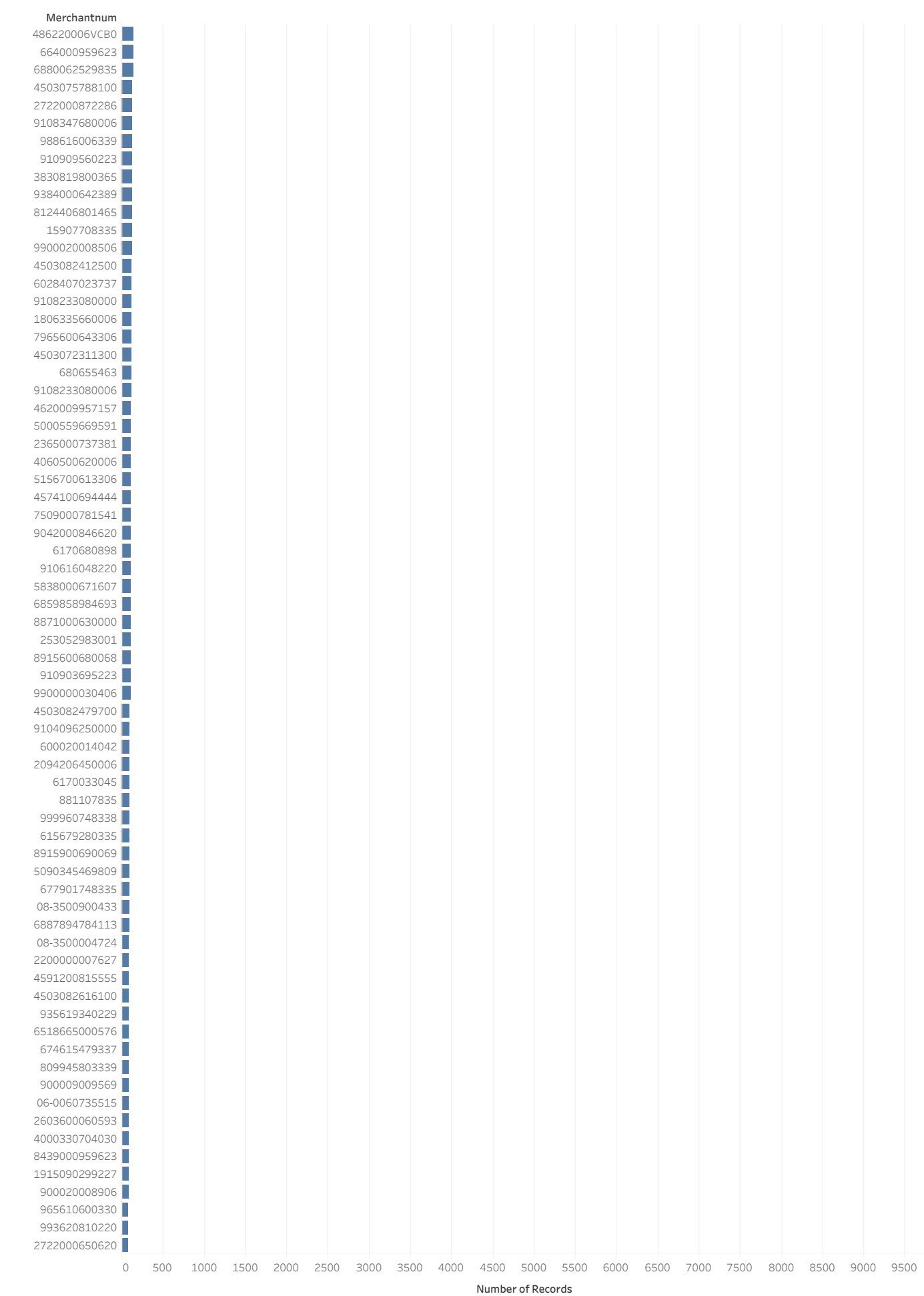
The trend of sum of Number of Records for Date Month.

Merchantnum



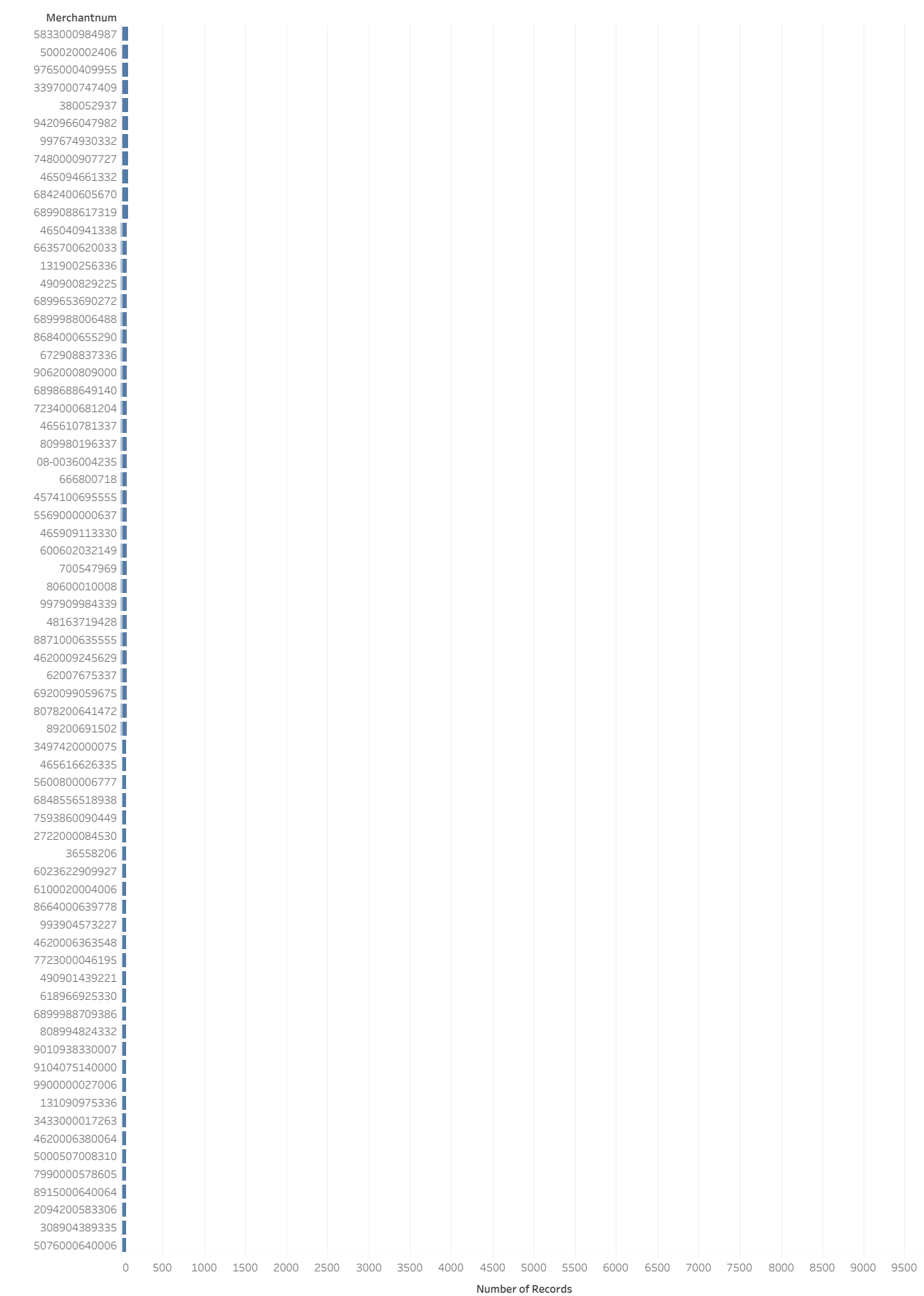
Sum of Number of Records for each Merchantnum. The view is filtered on Merchantnum, which keeps 13,090 of 880 members.

Merchantnum



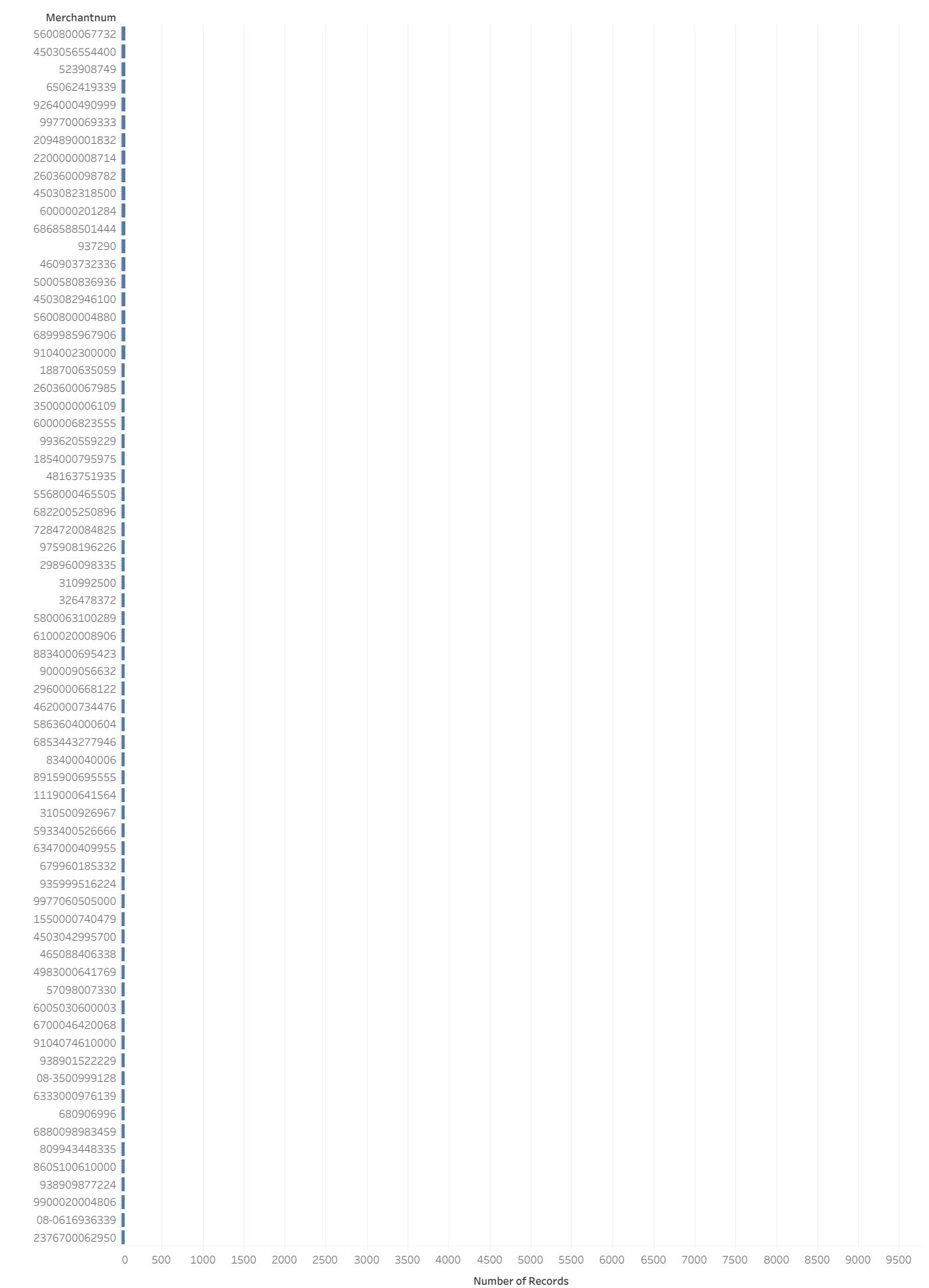
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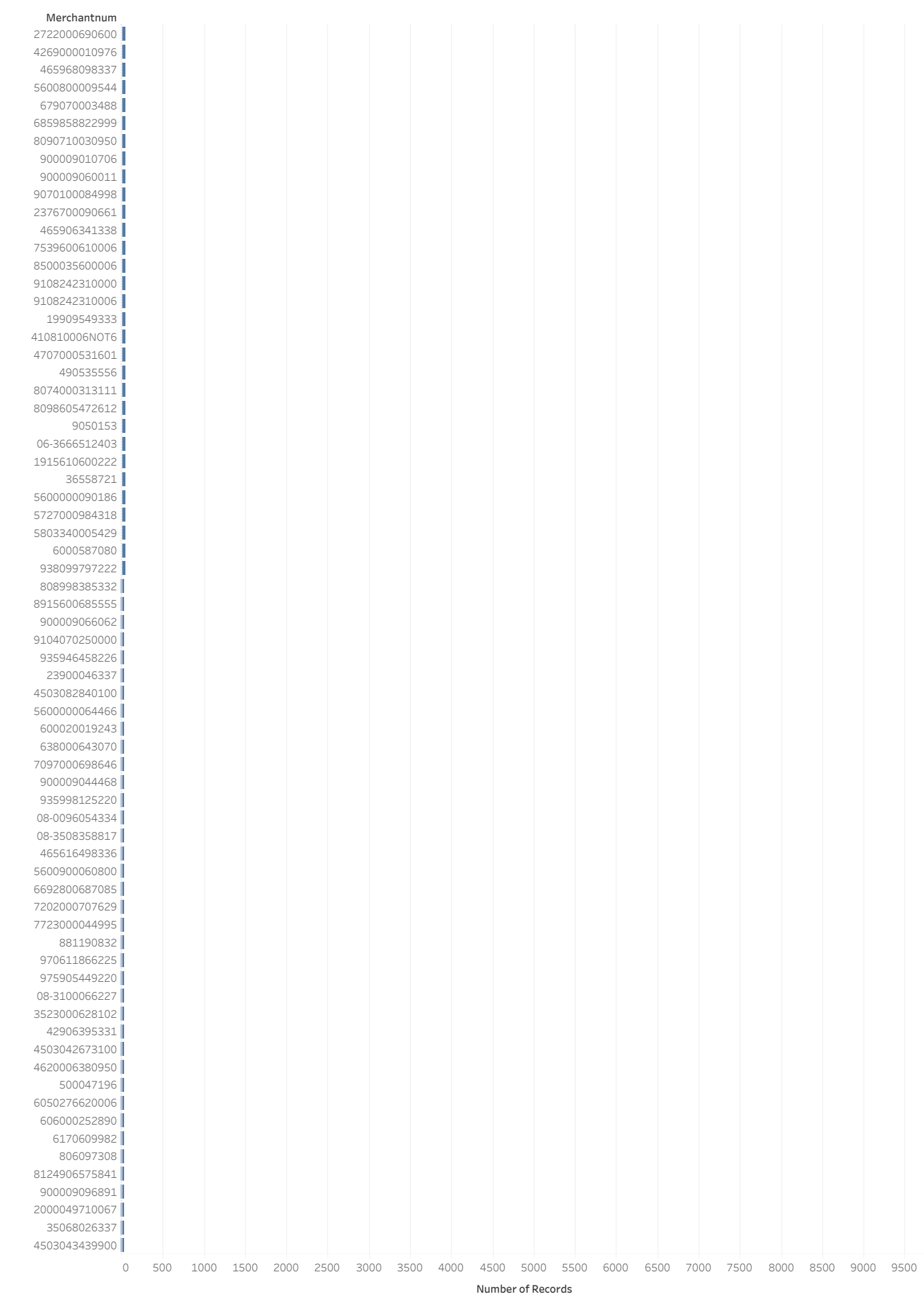
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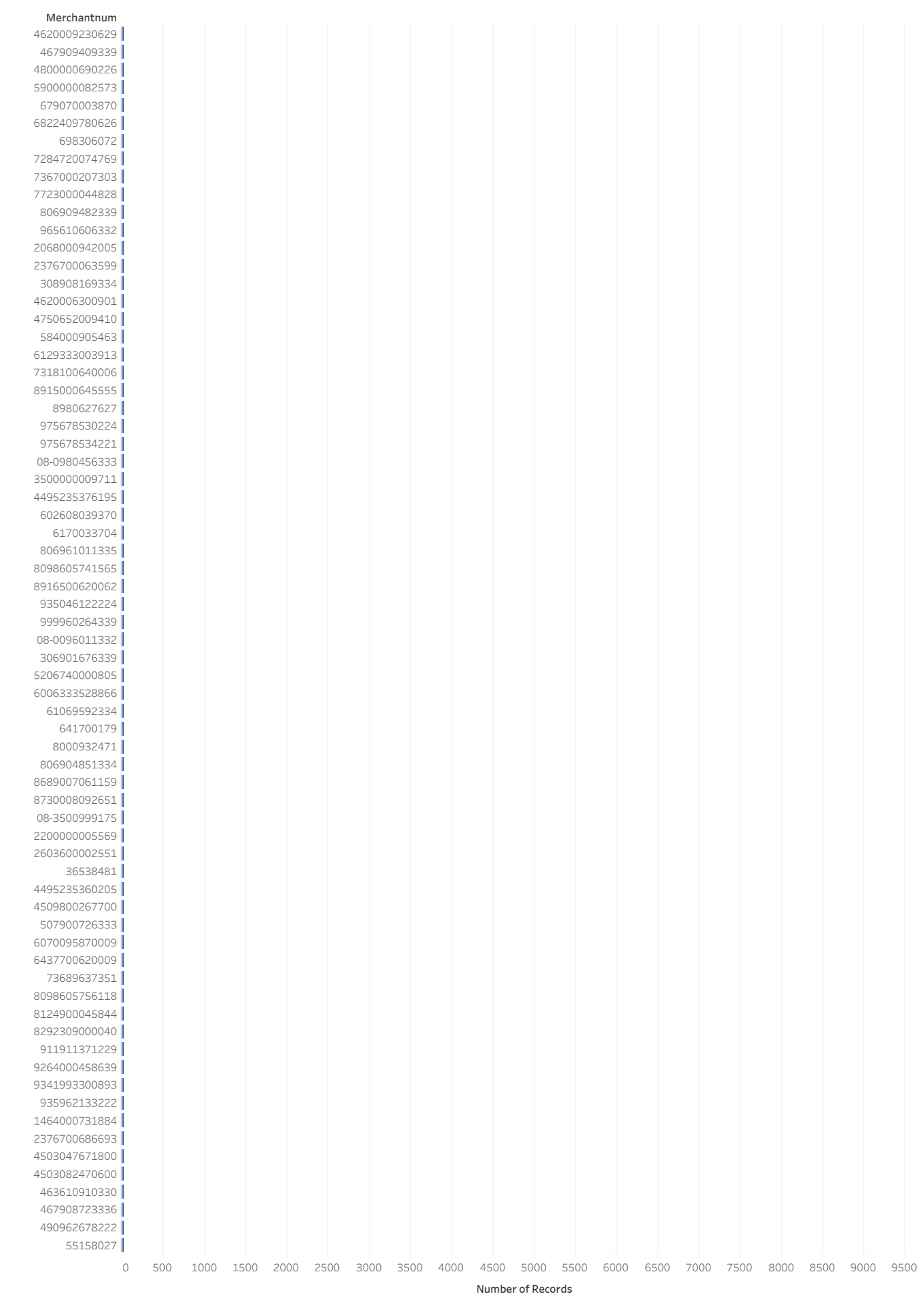
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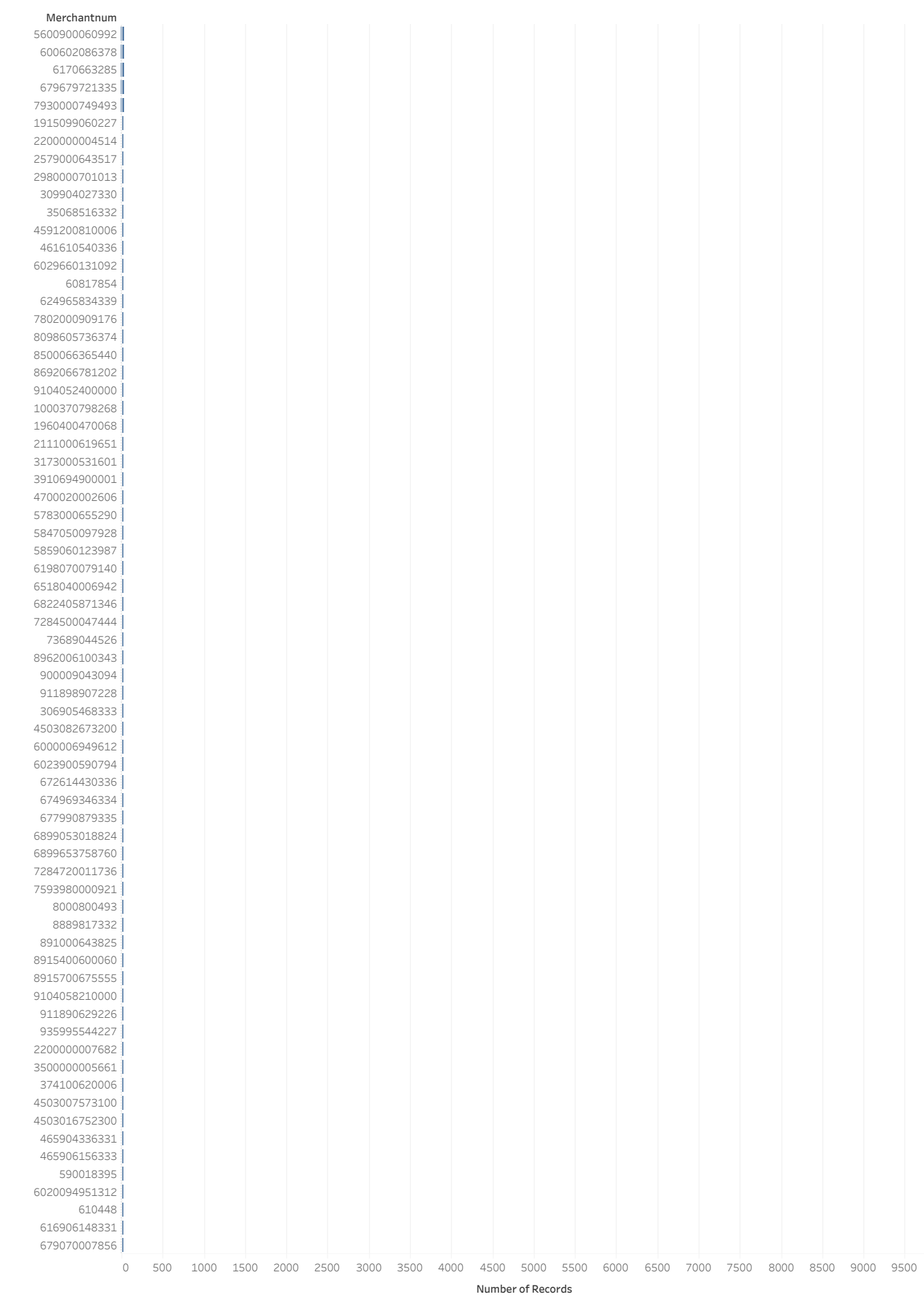
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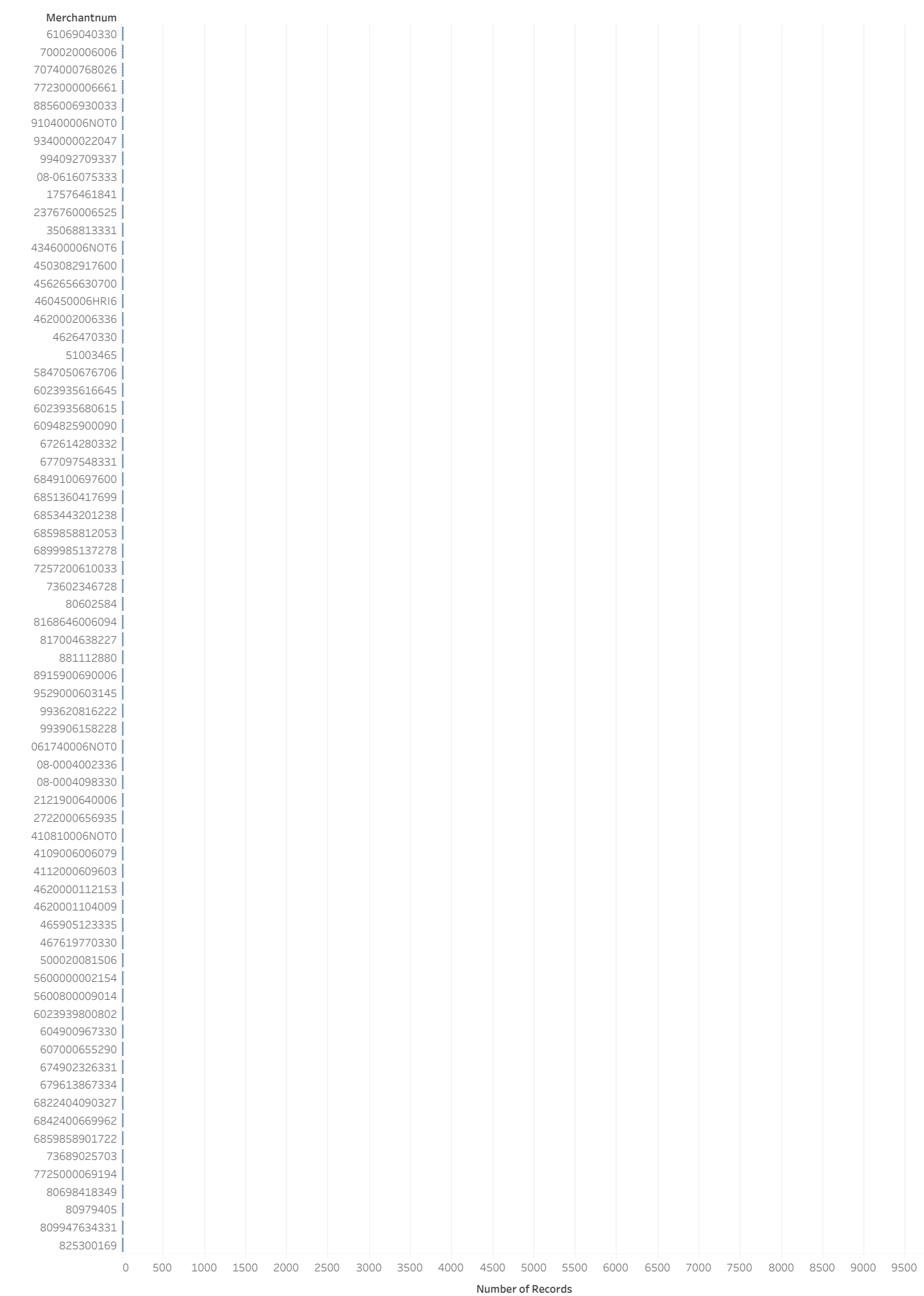
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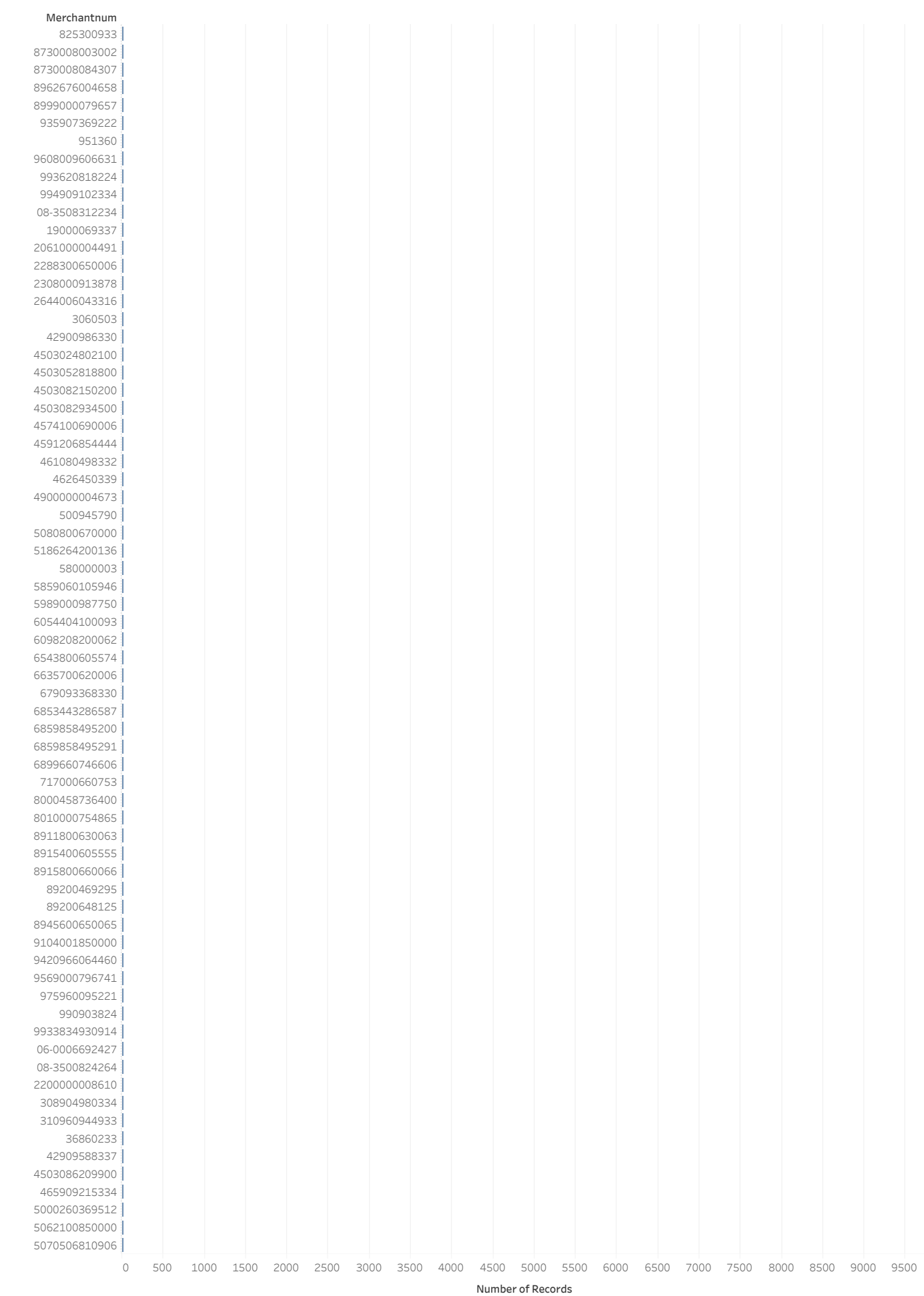
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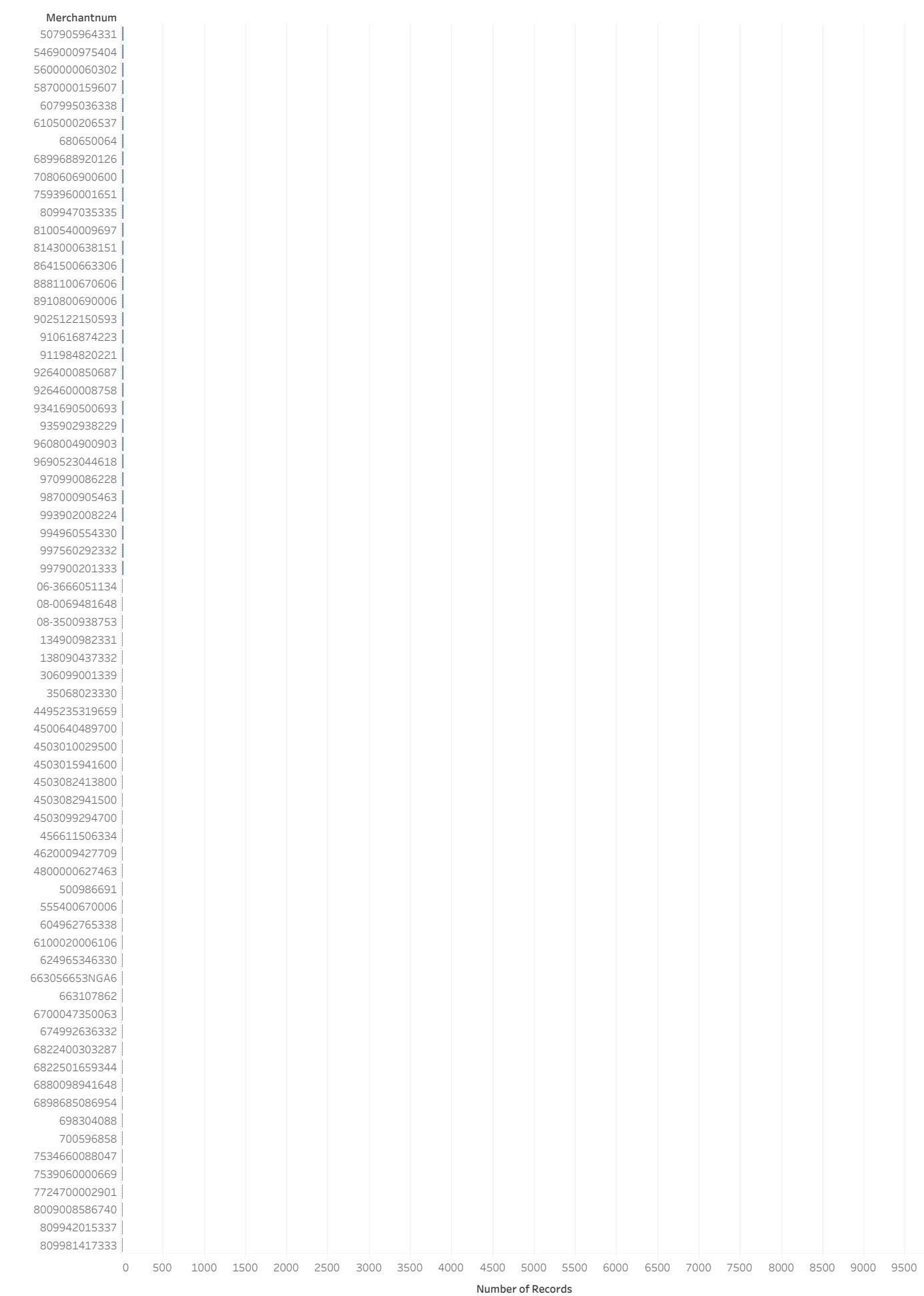
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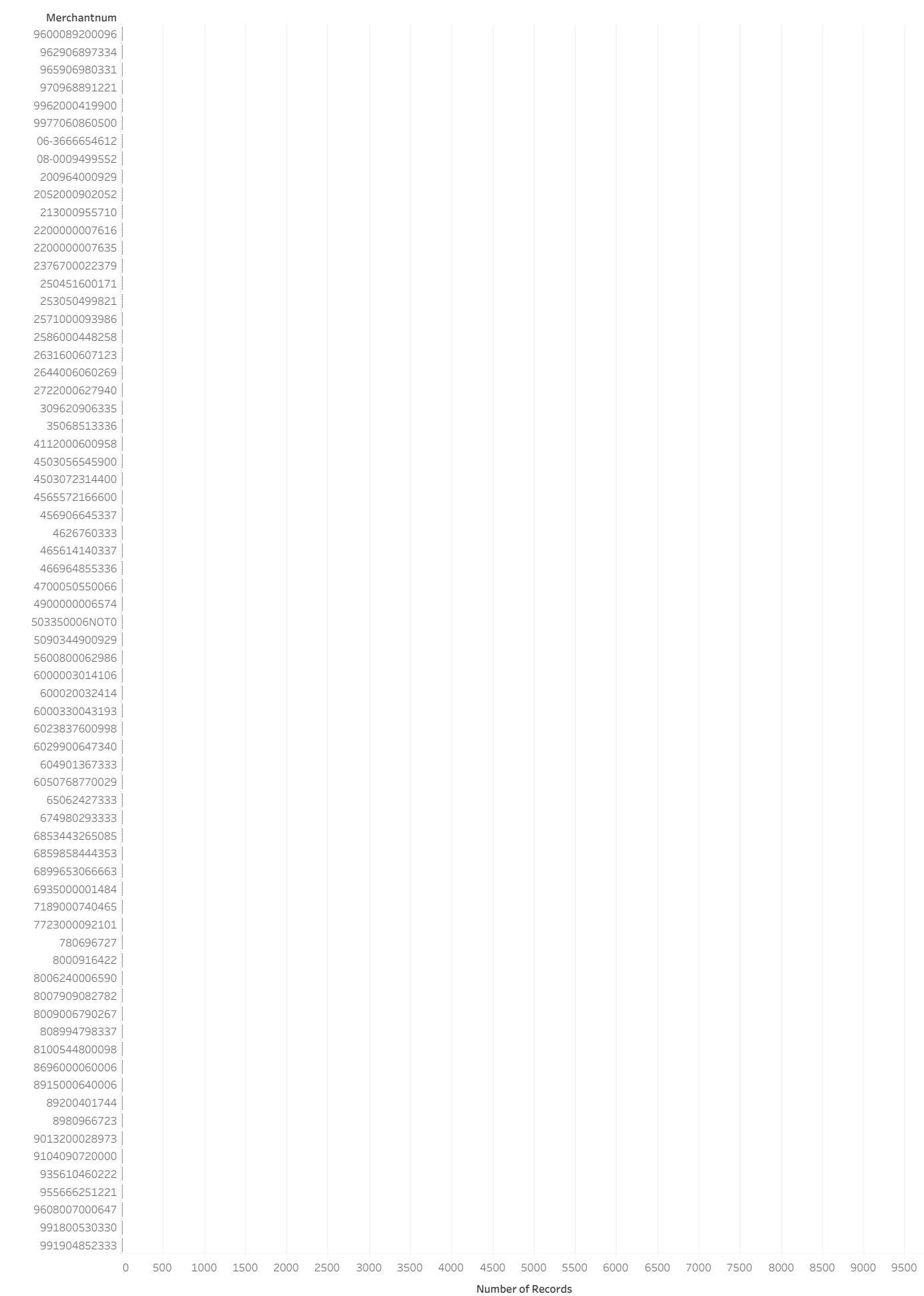
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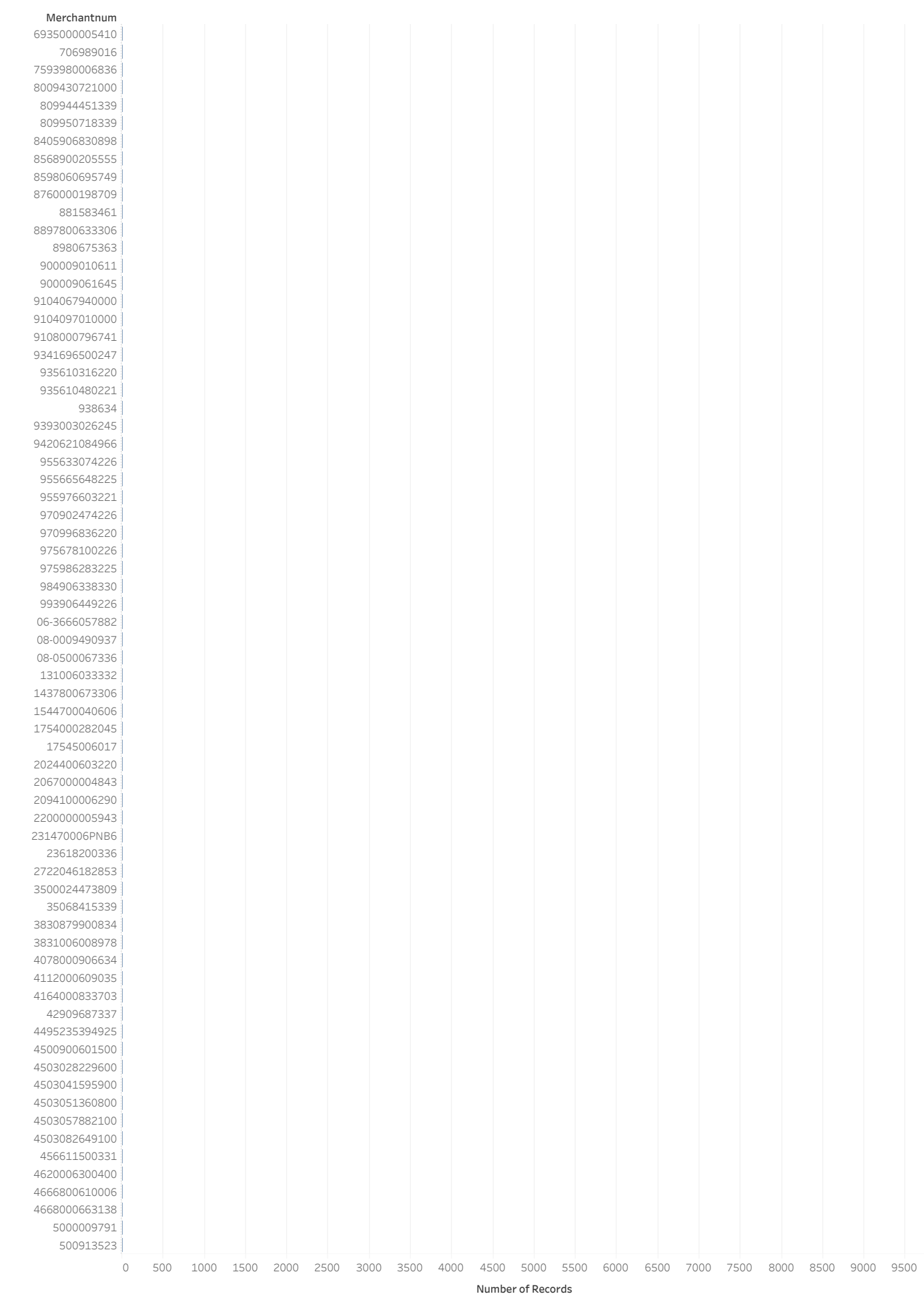
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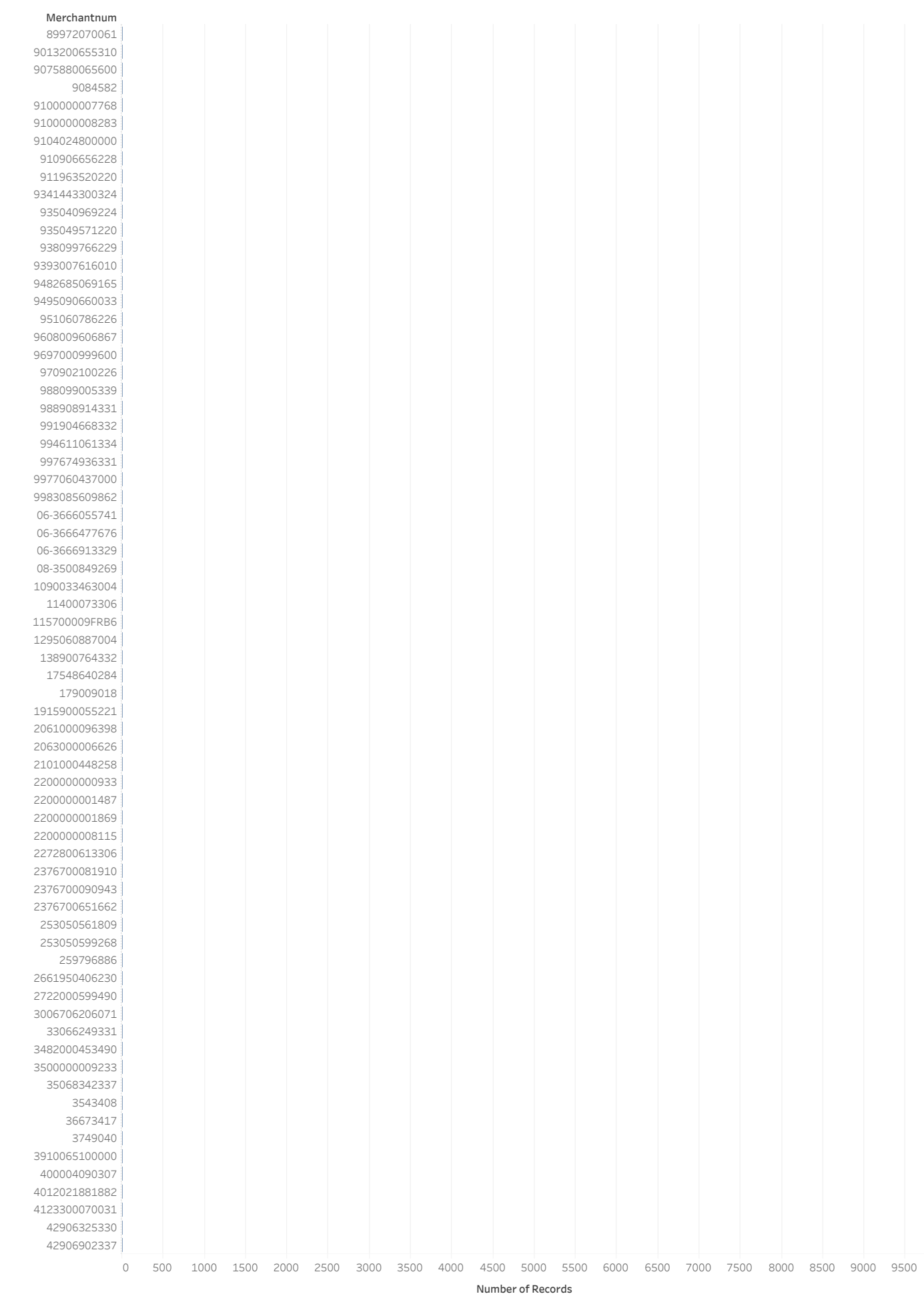
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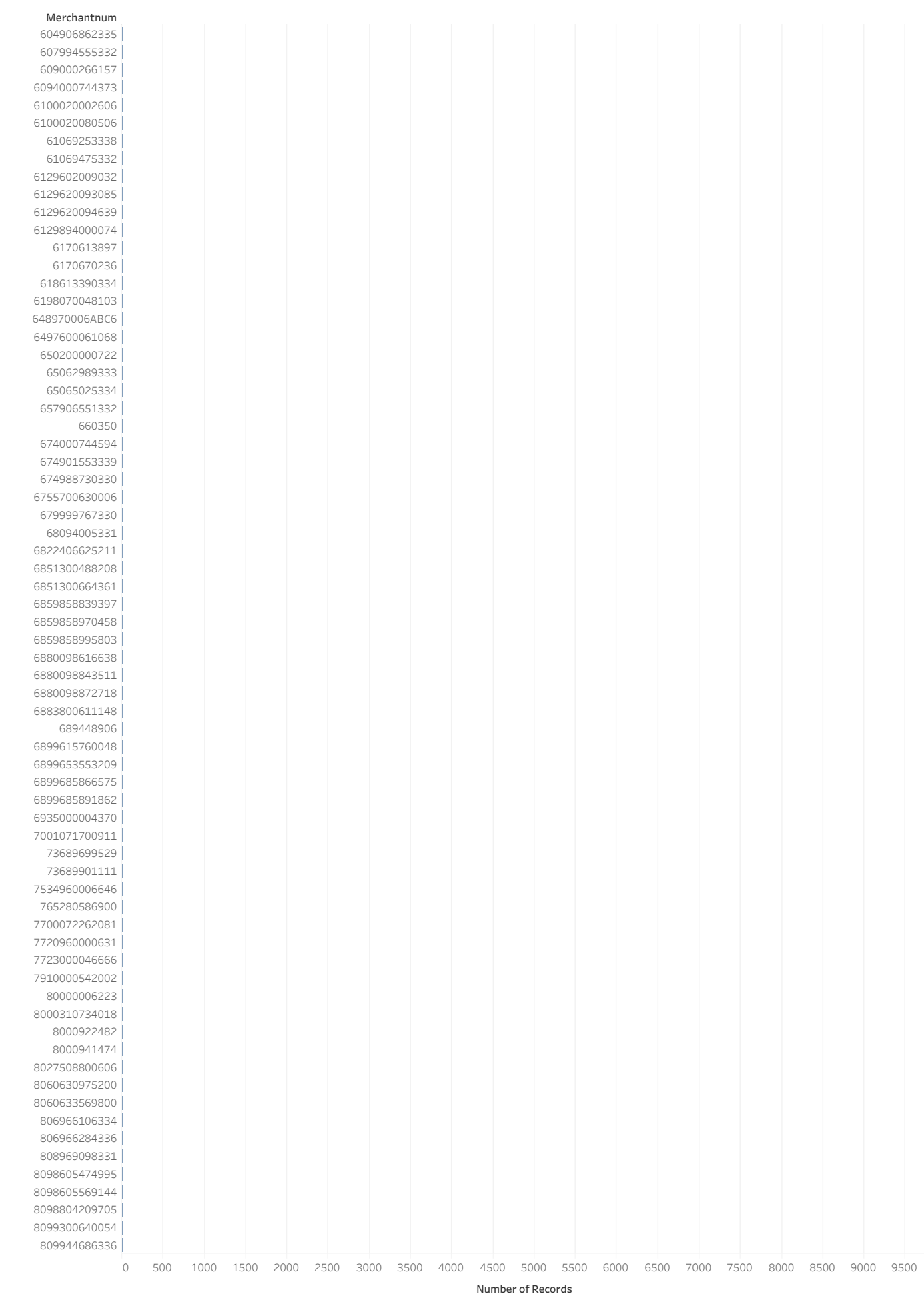
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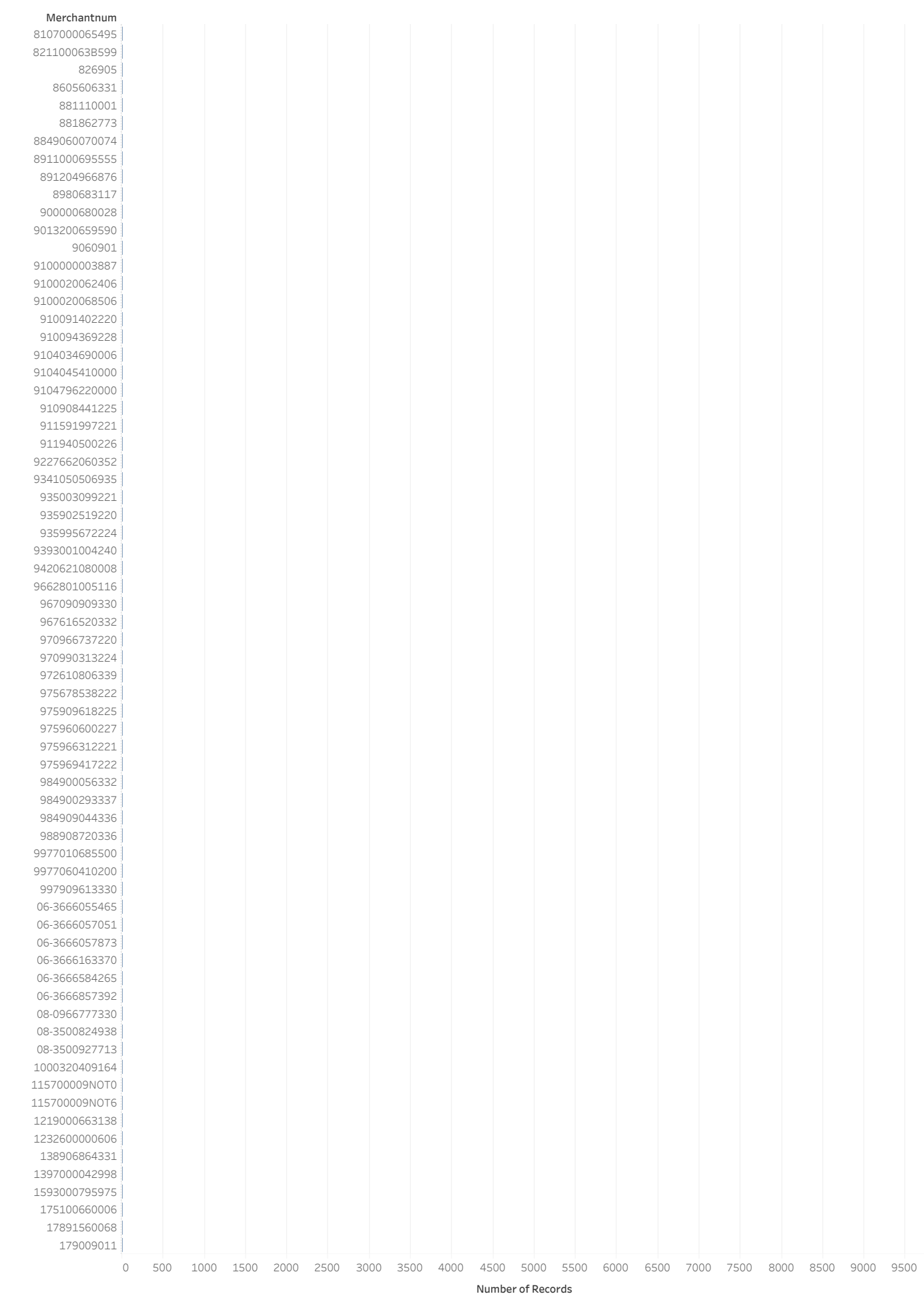
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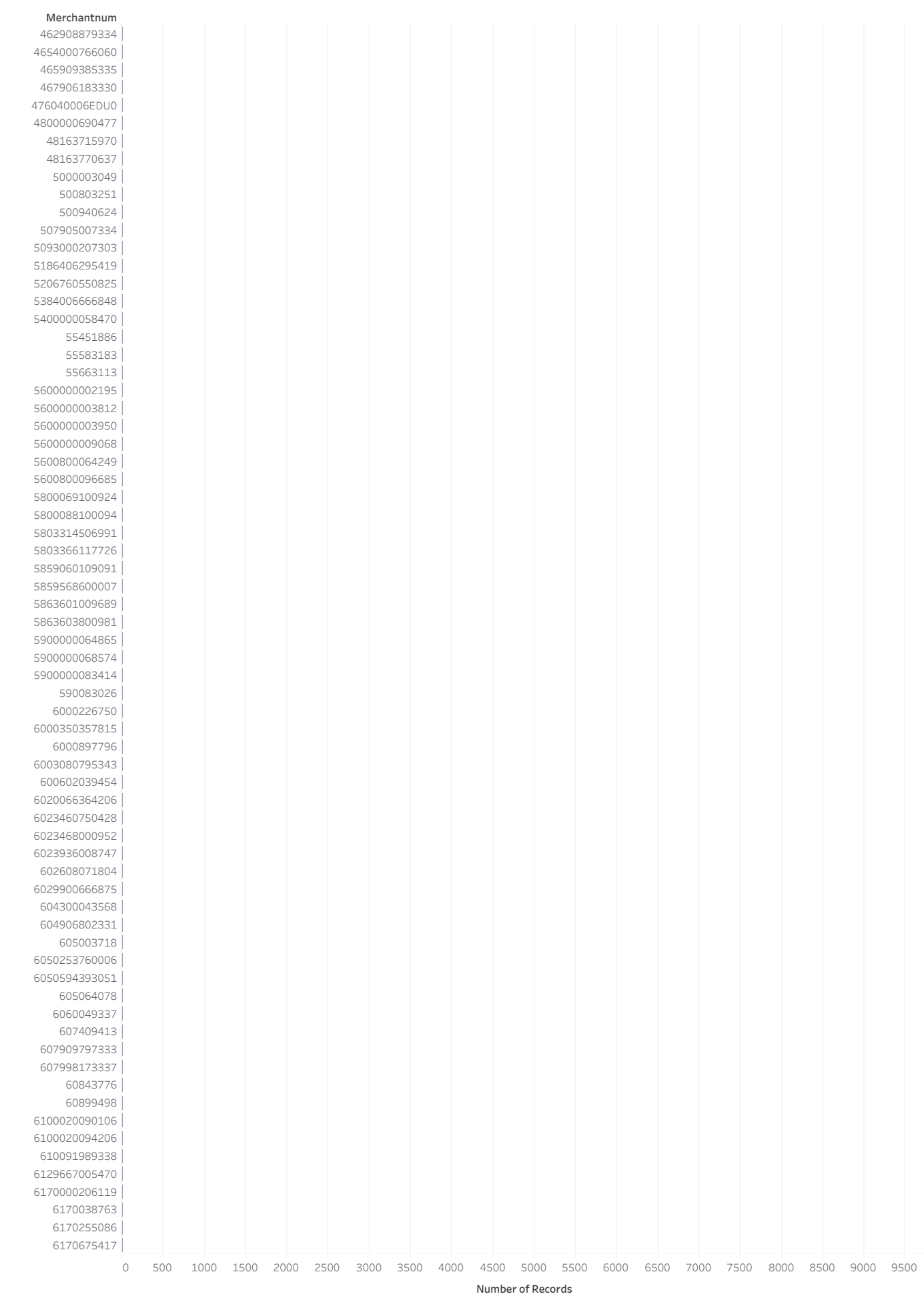
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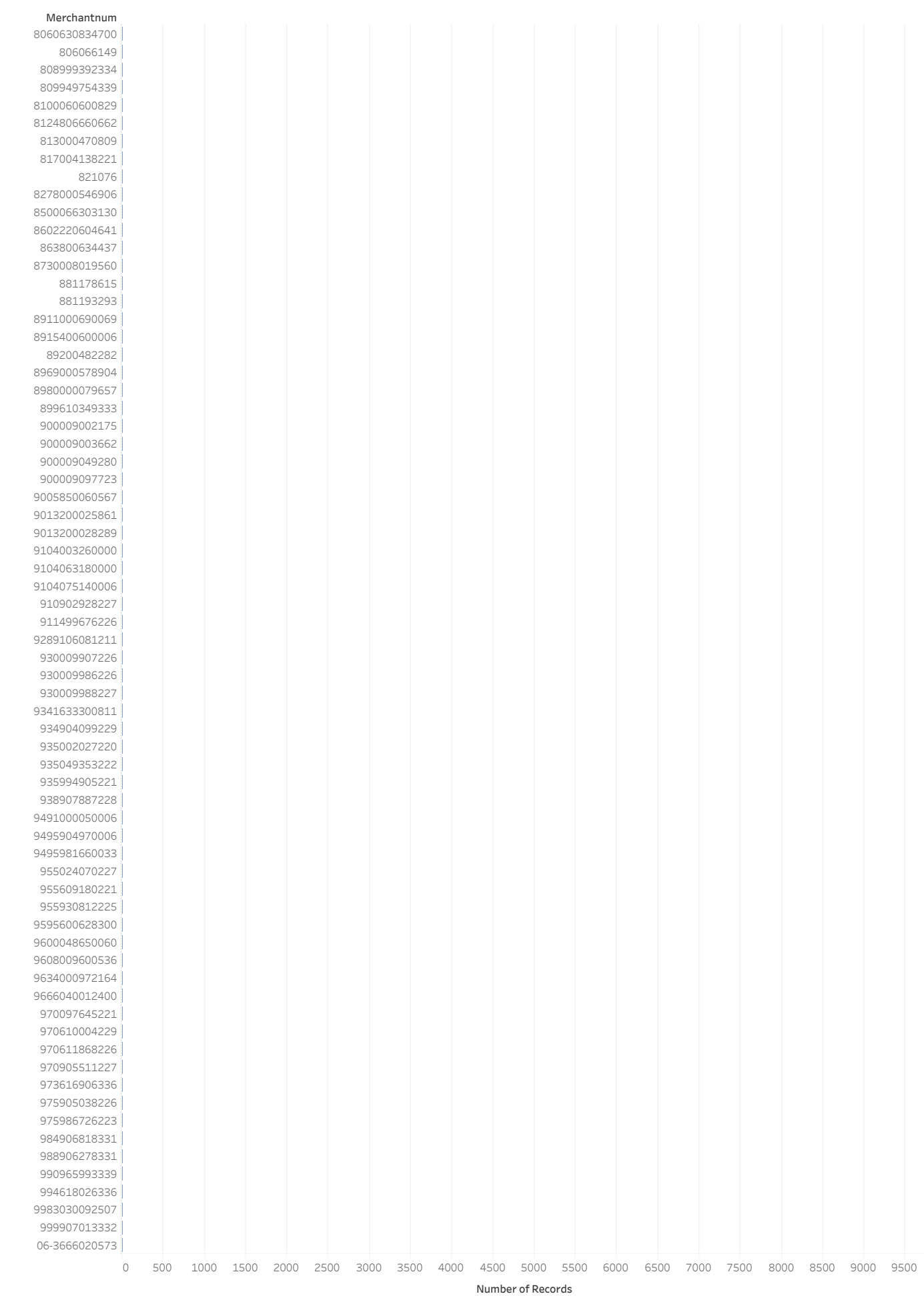
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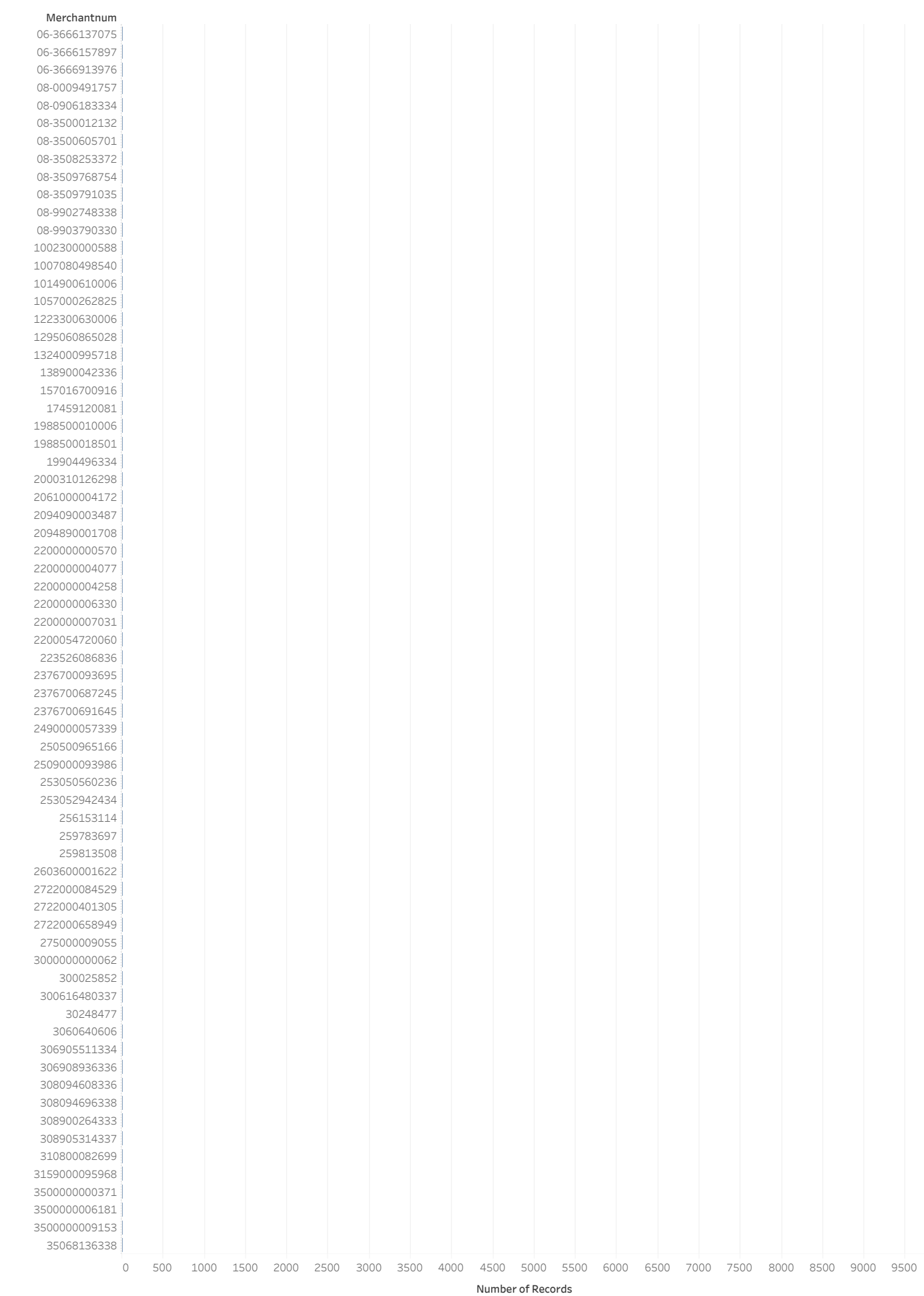
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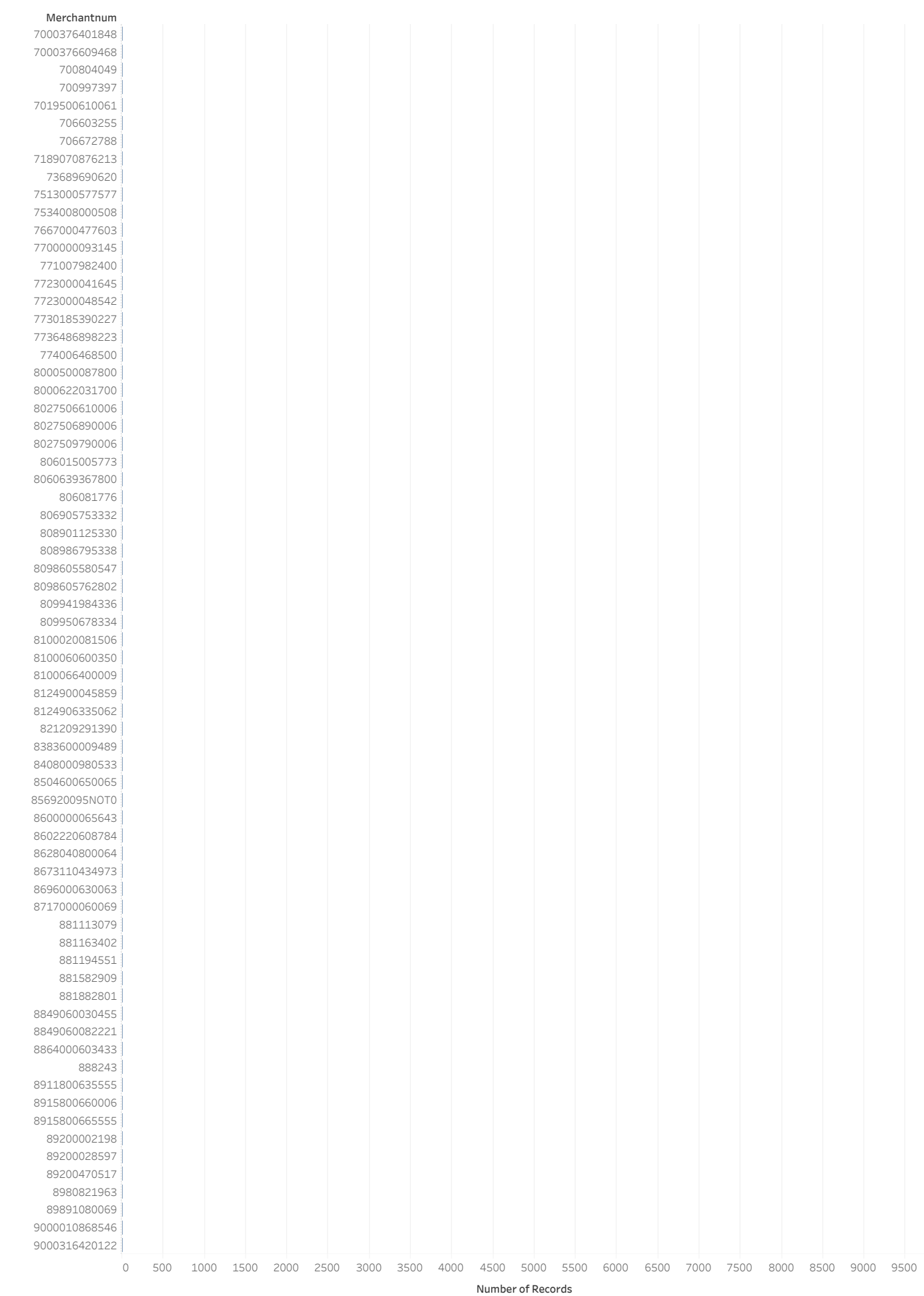
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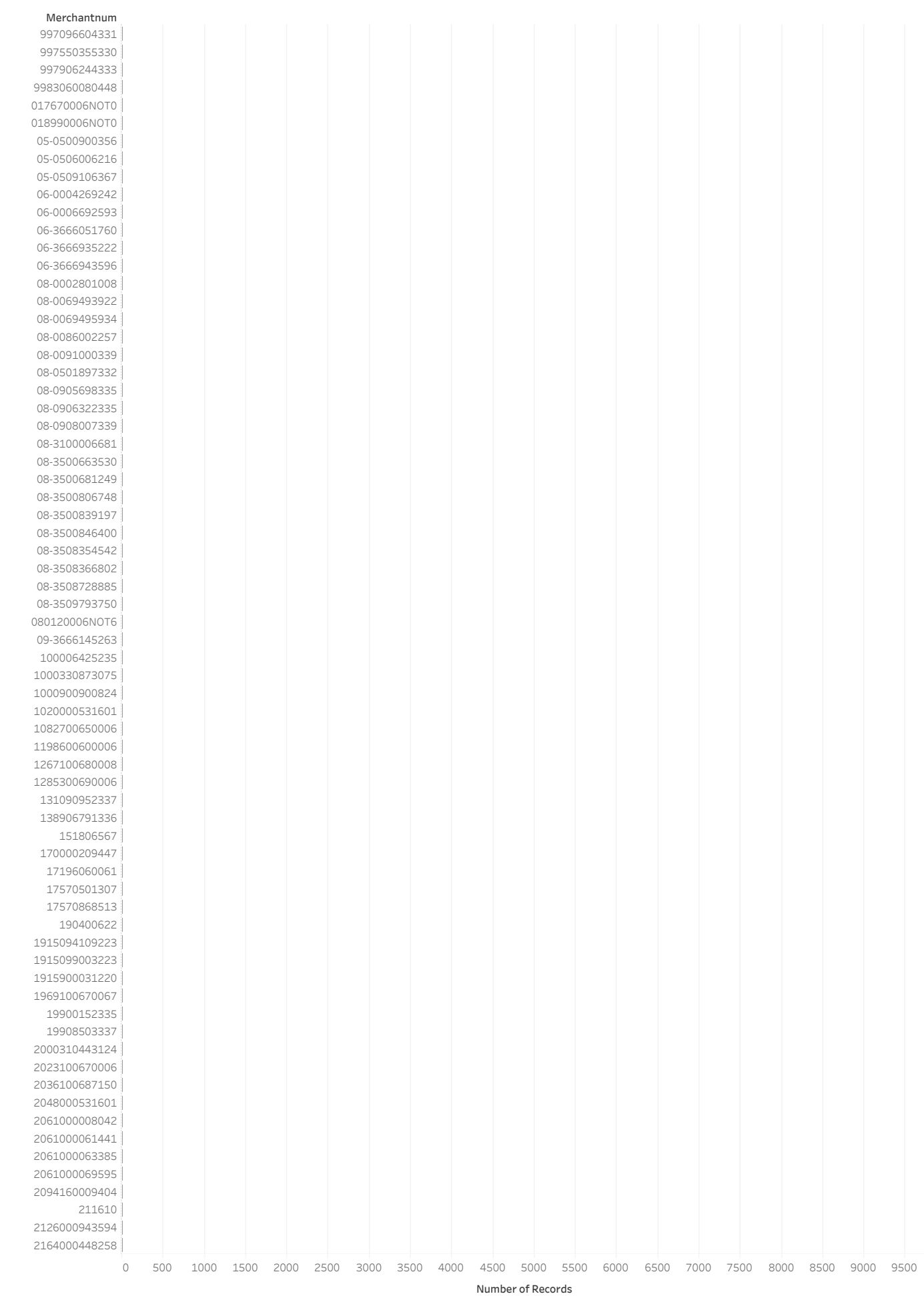
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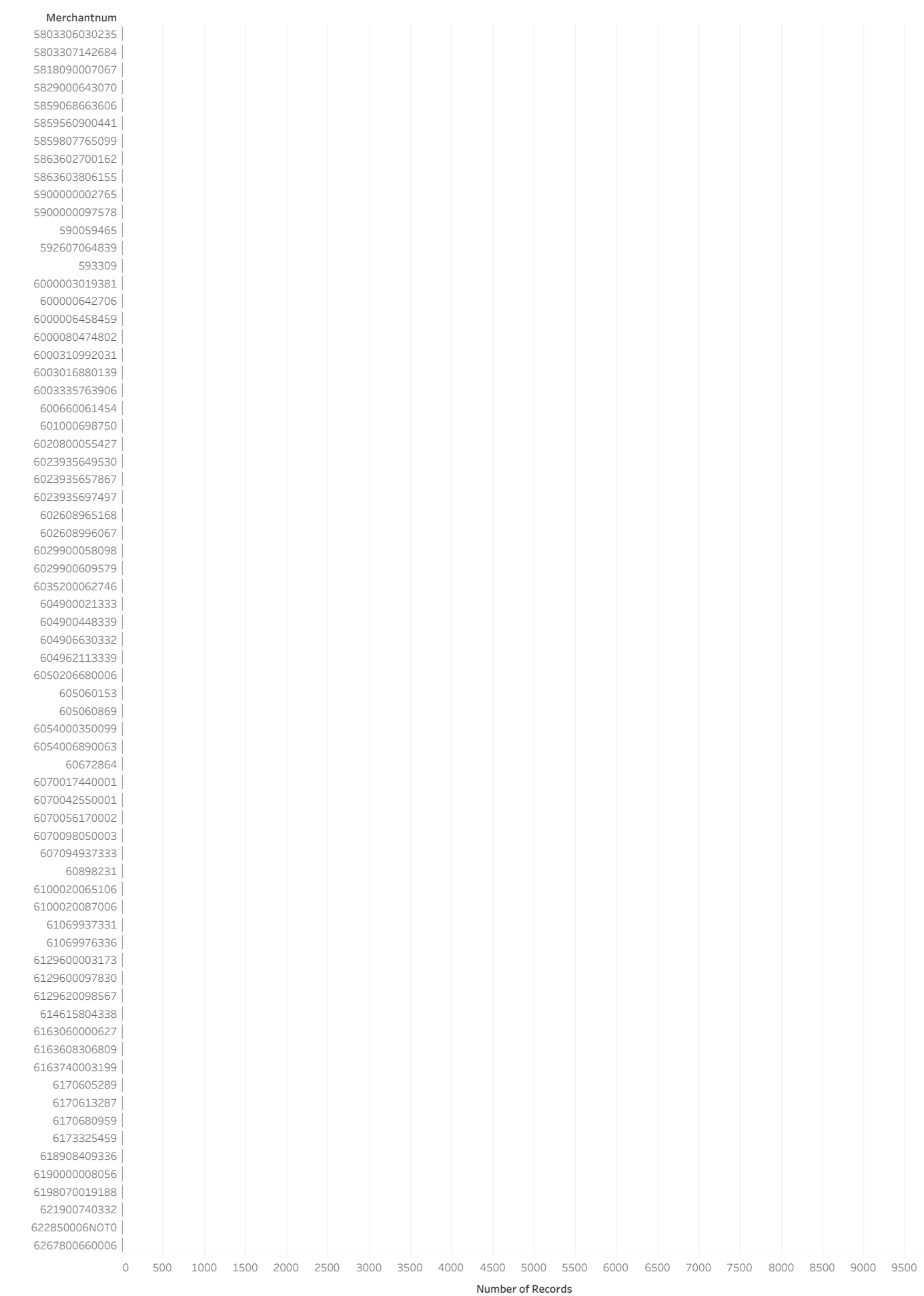
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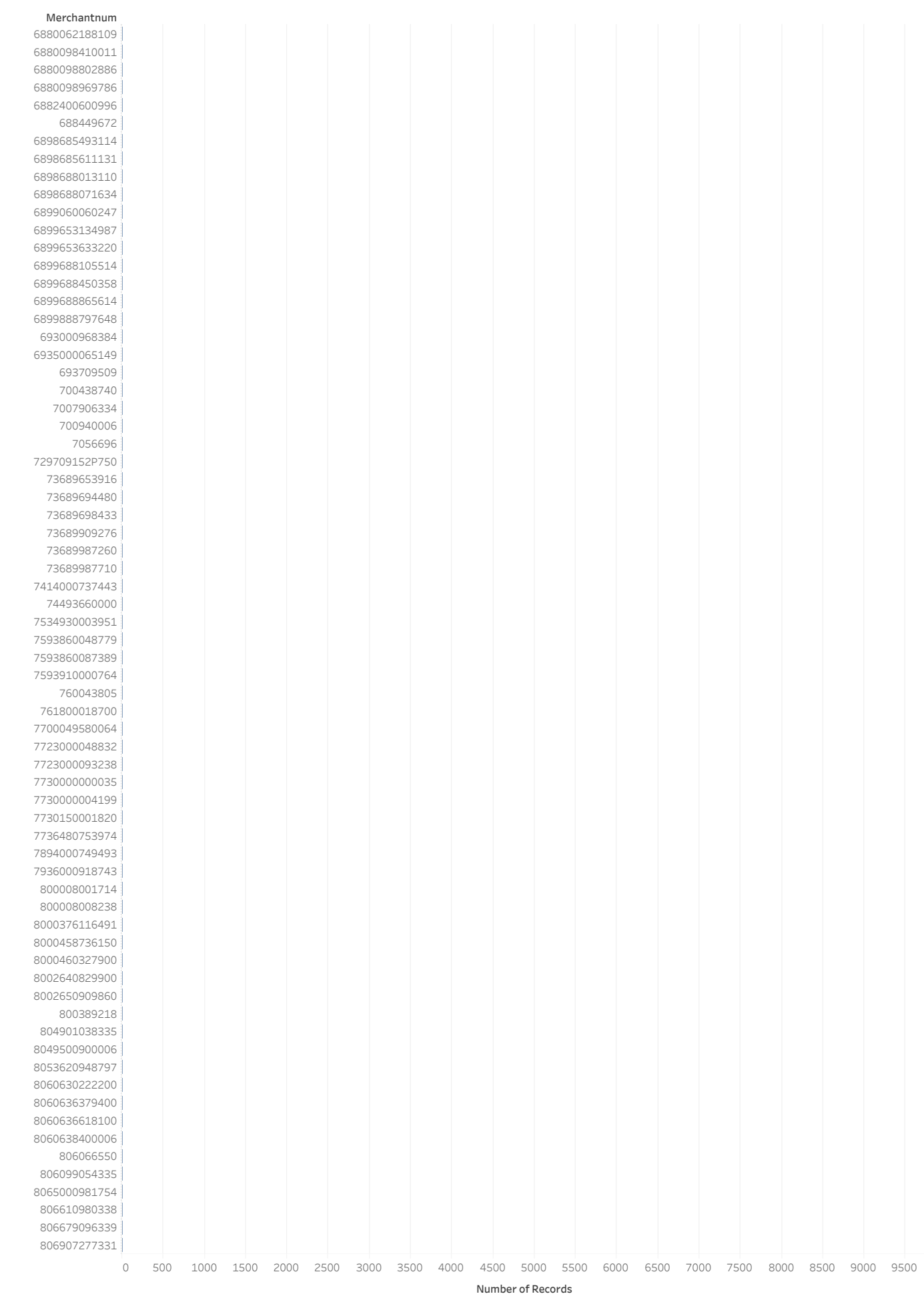
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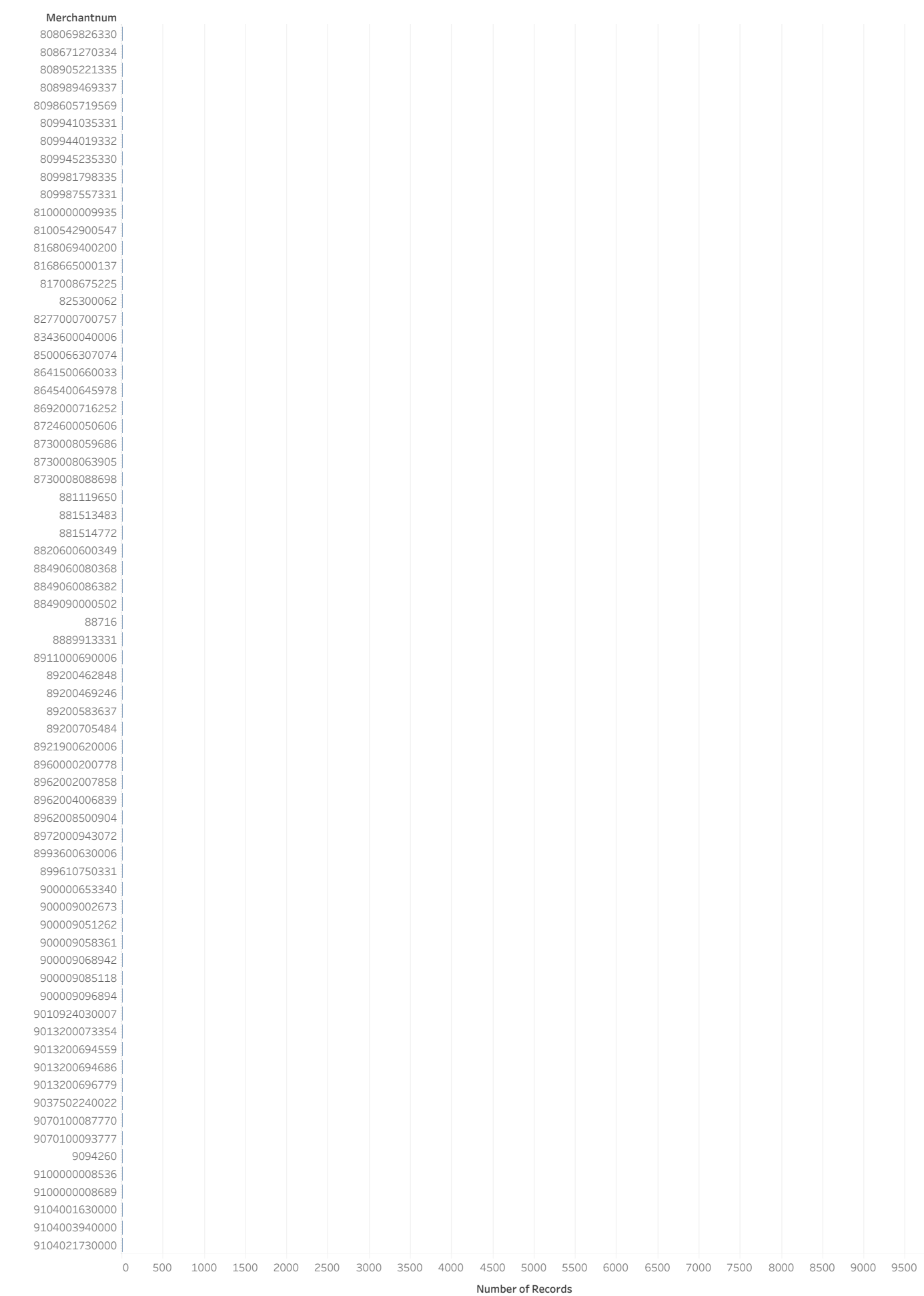
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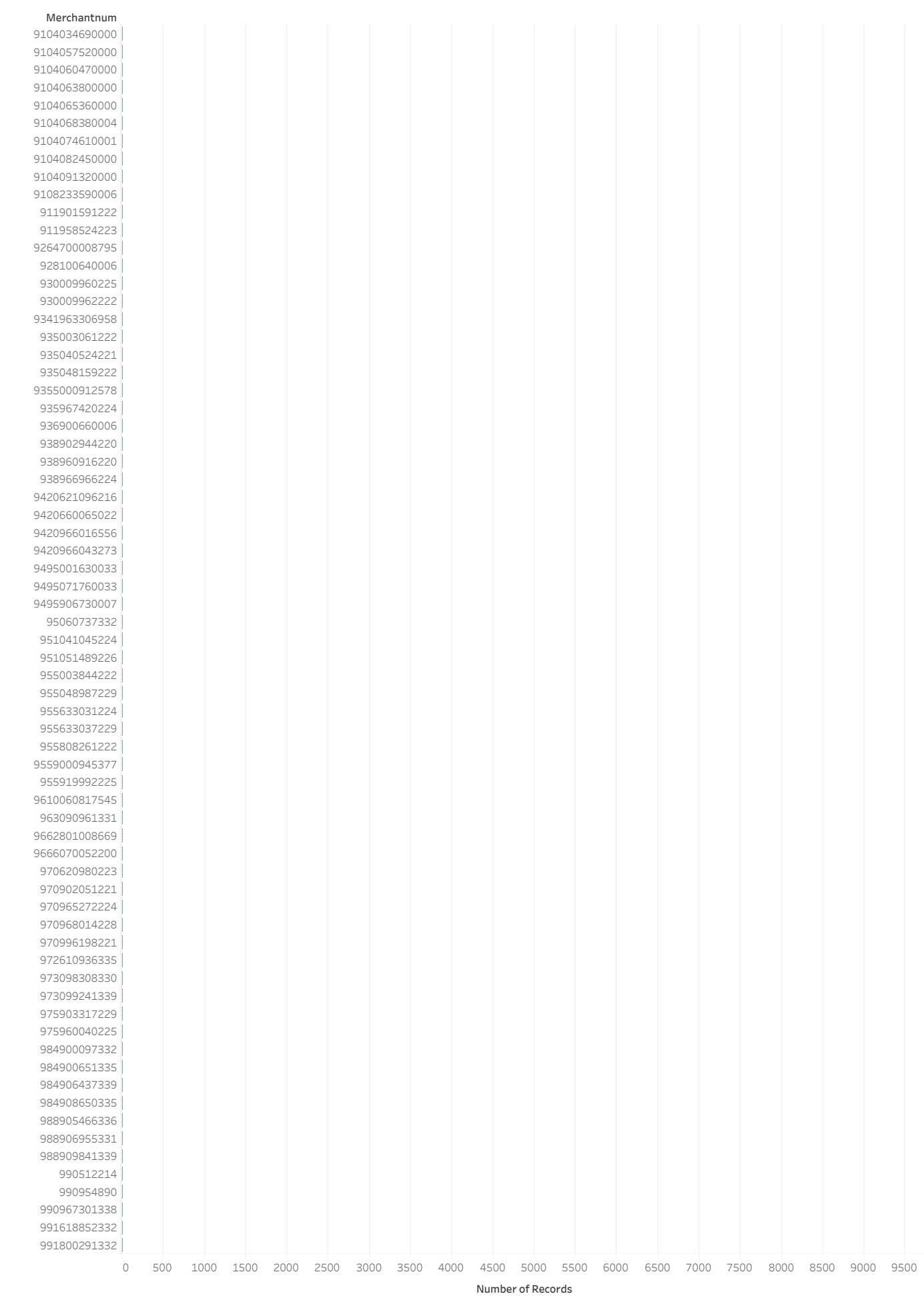
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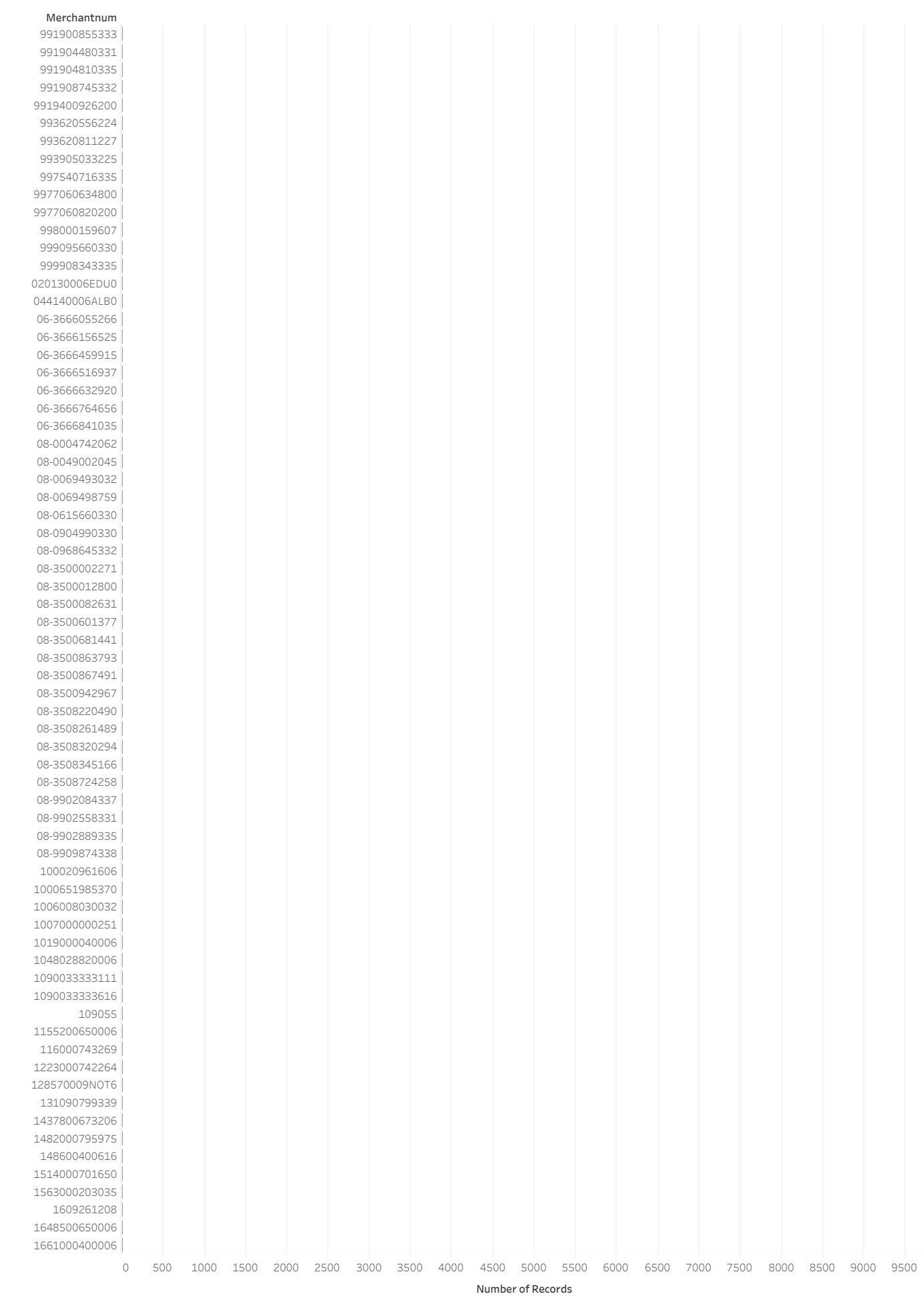
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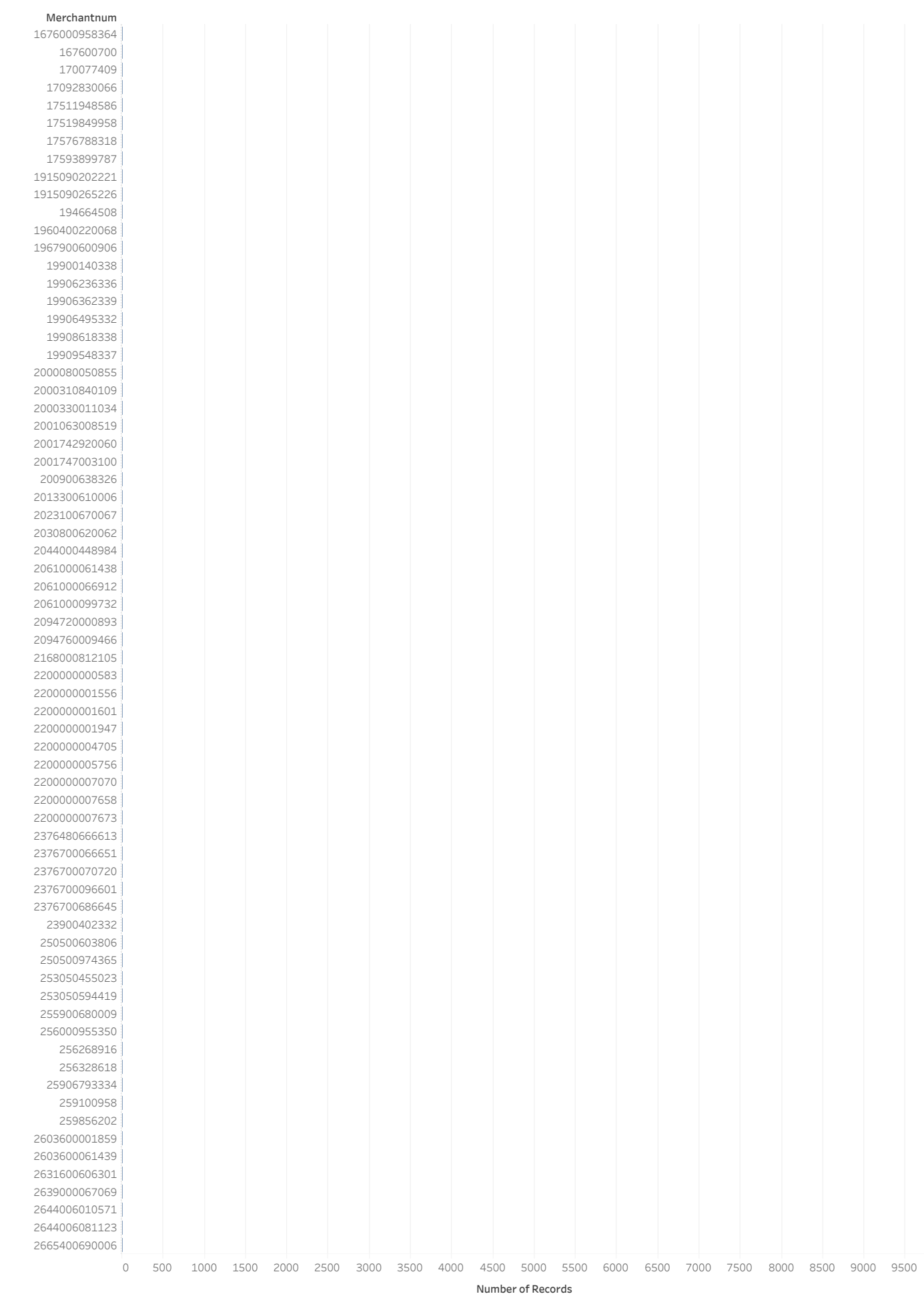
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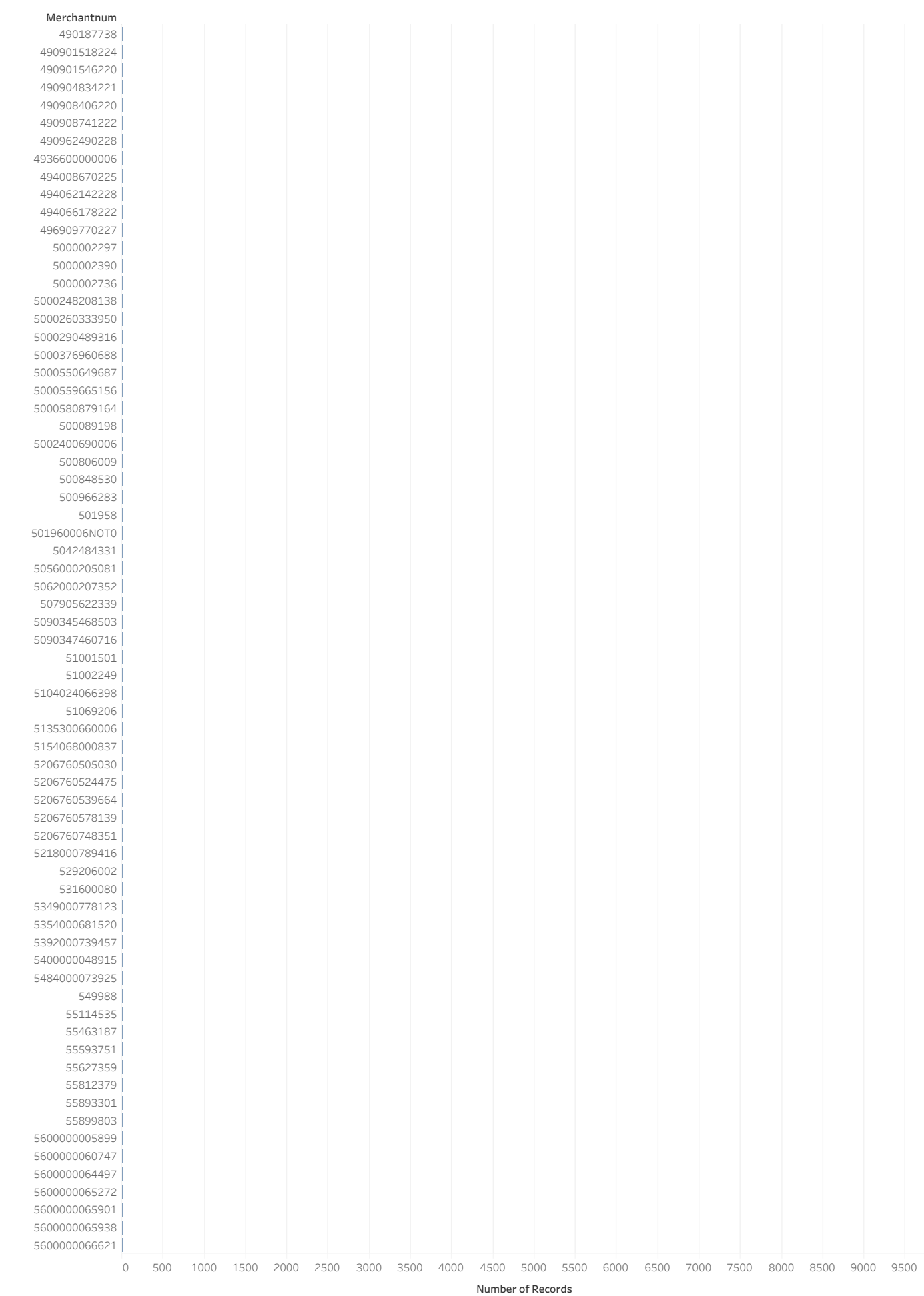
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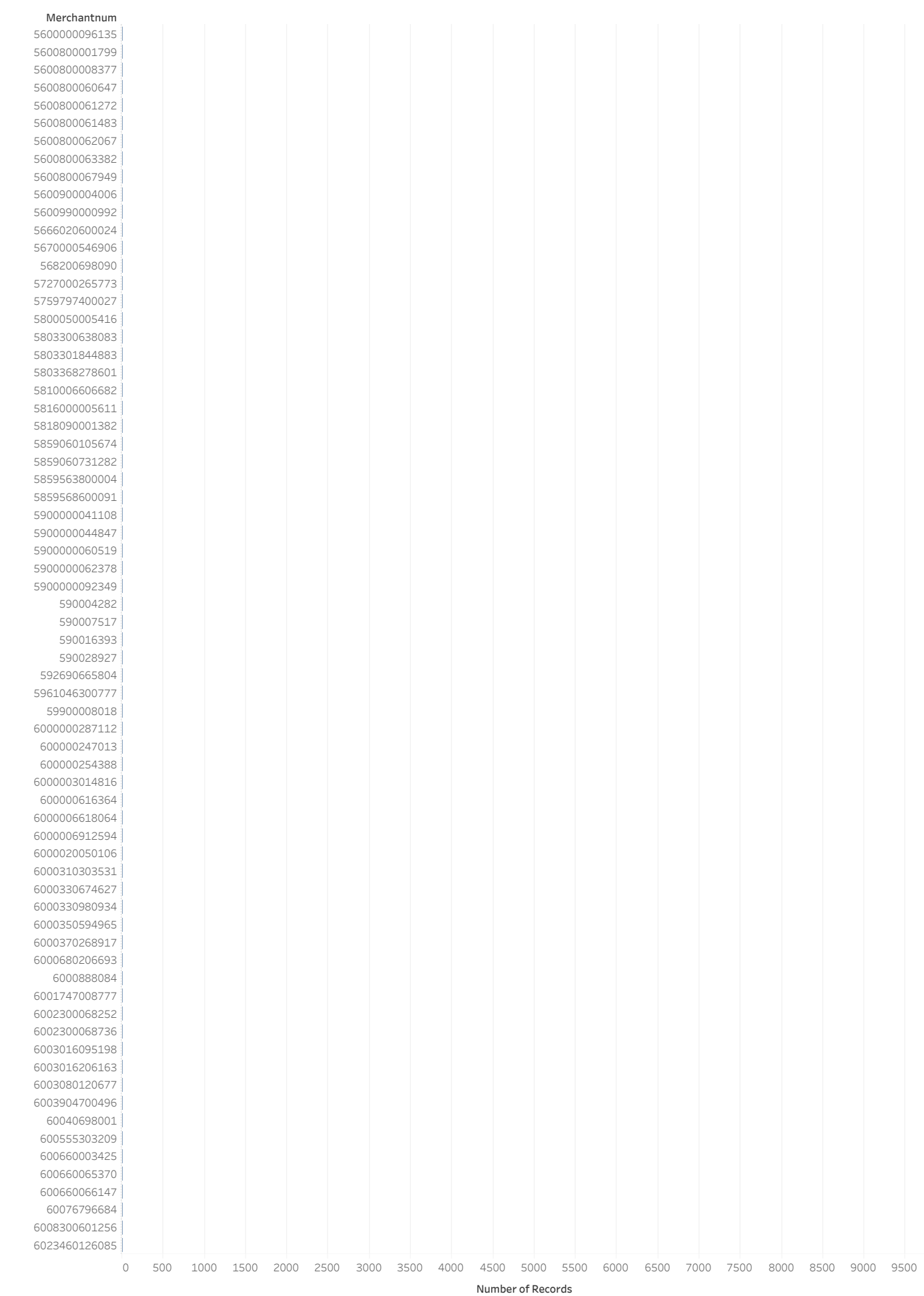
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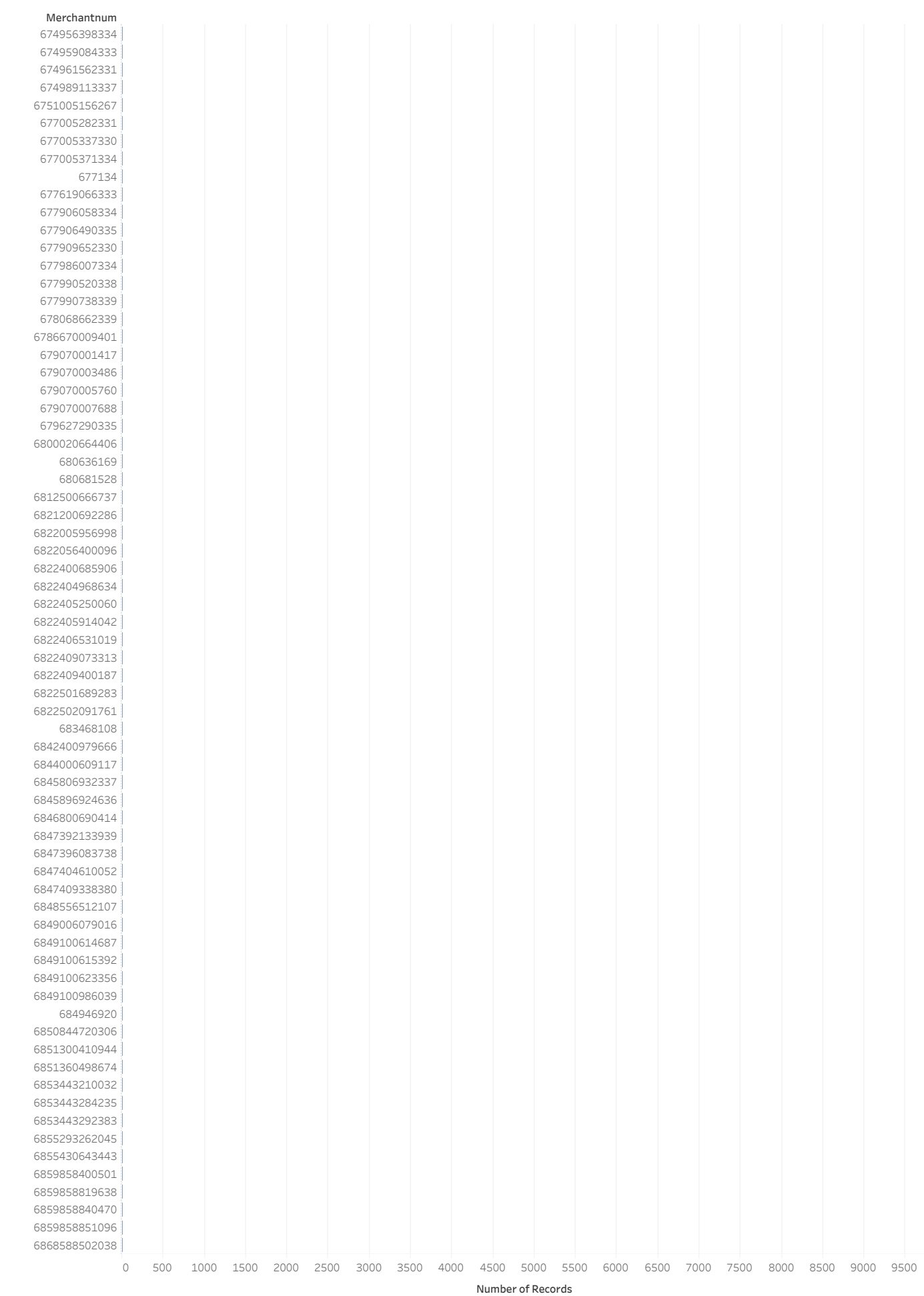
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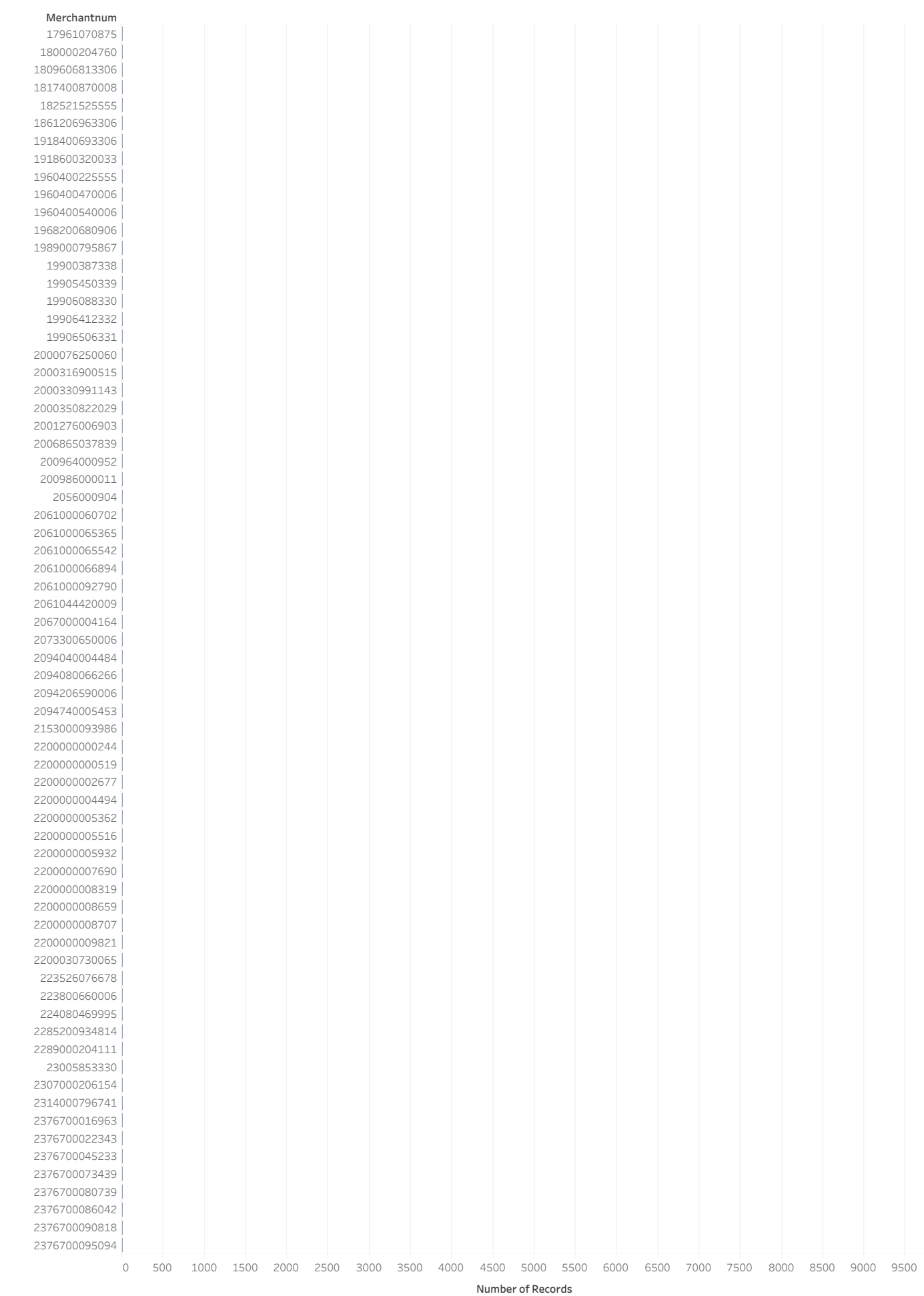
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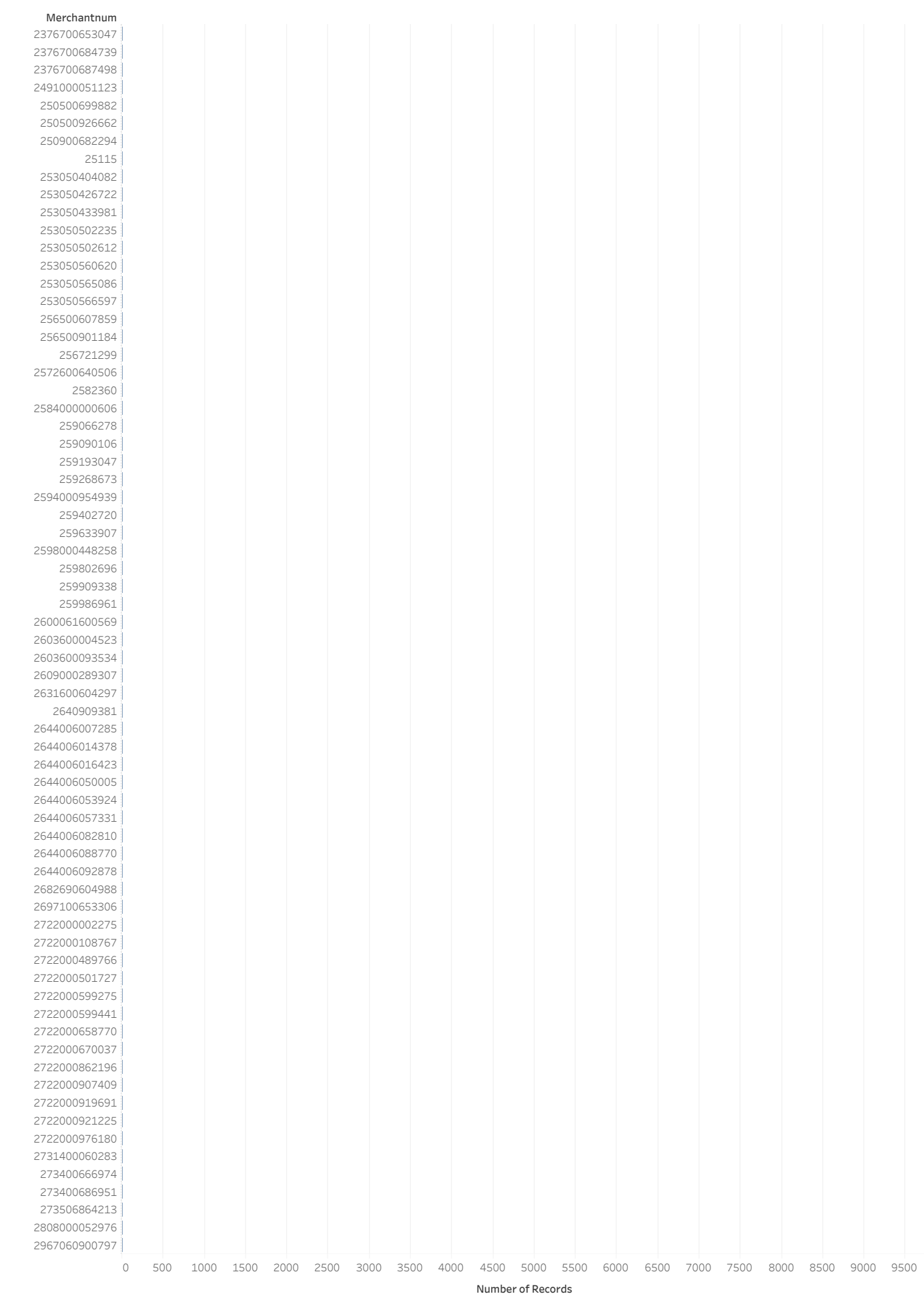
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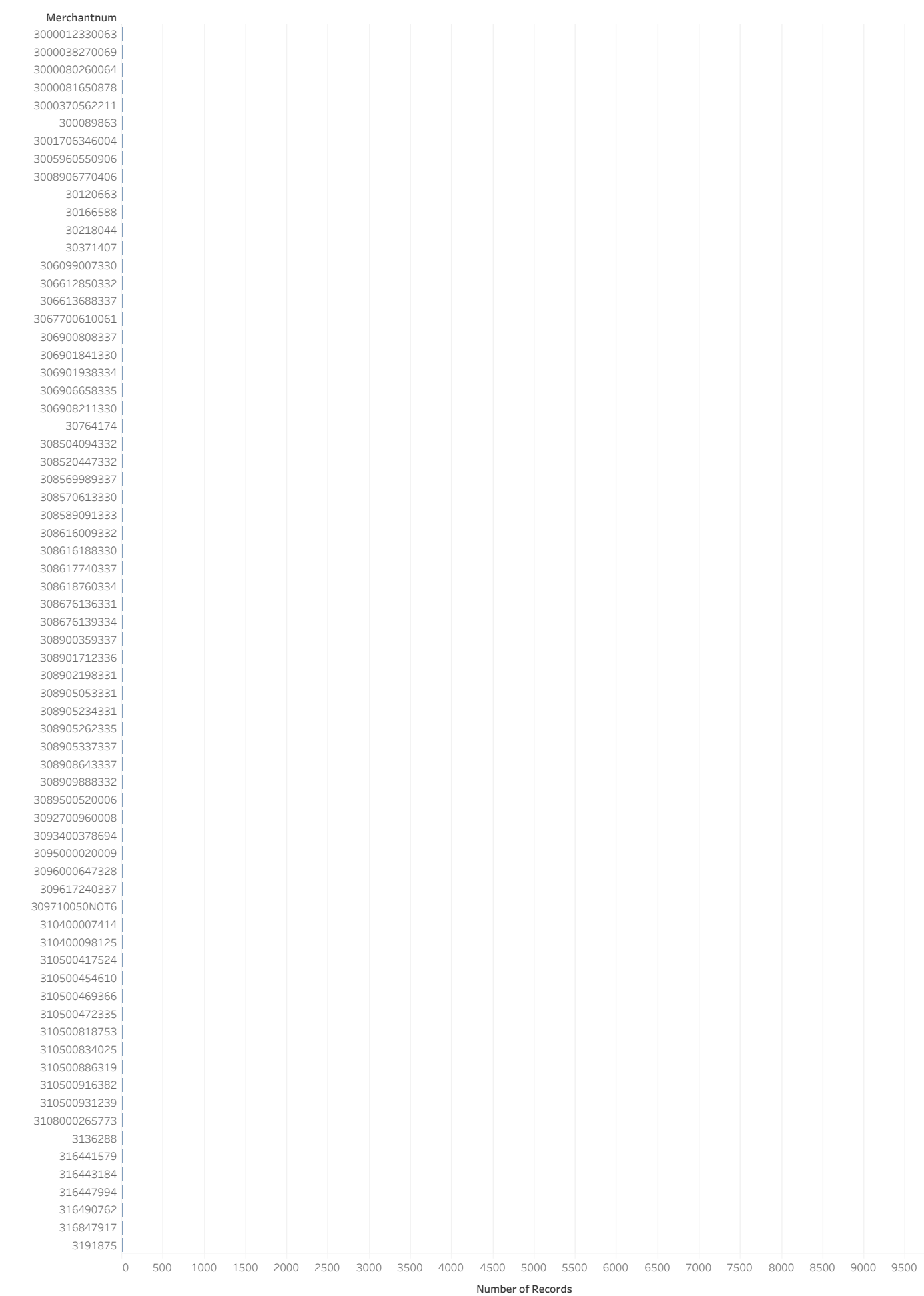
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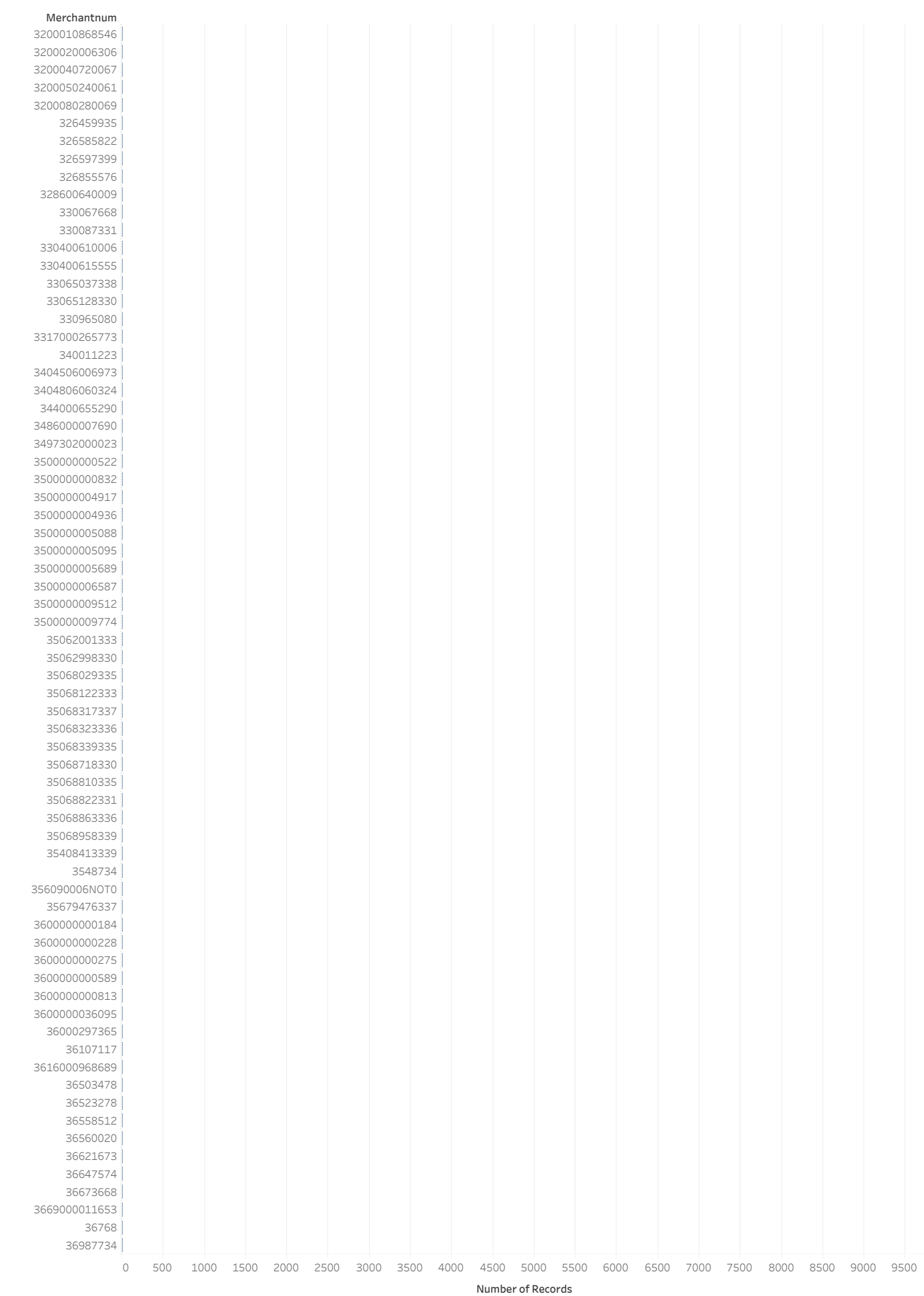
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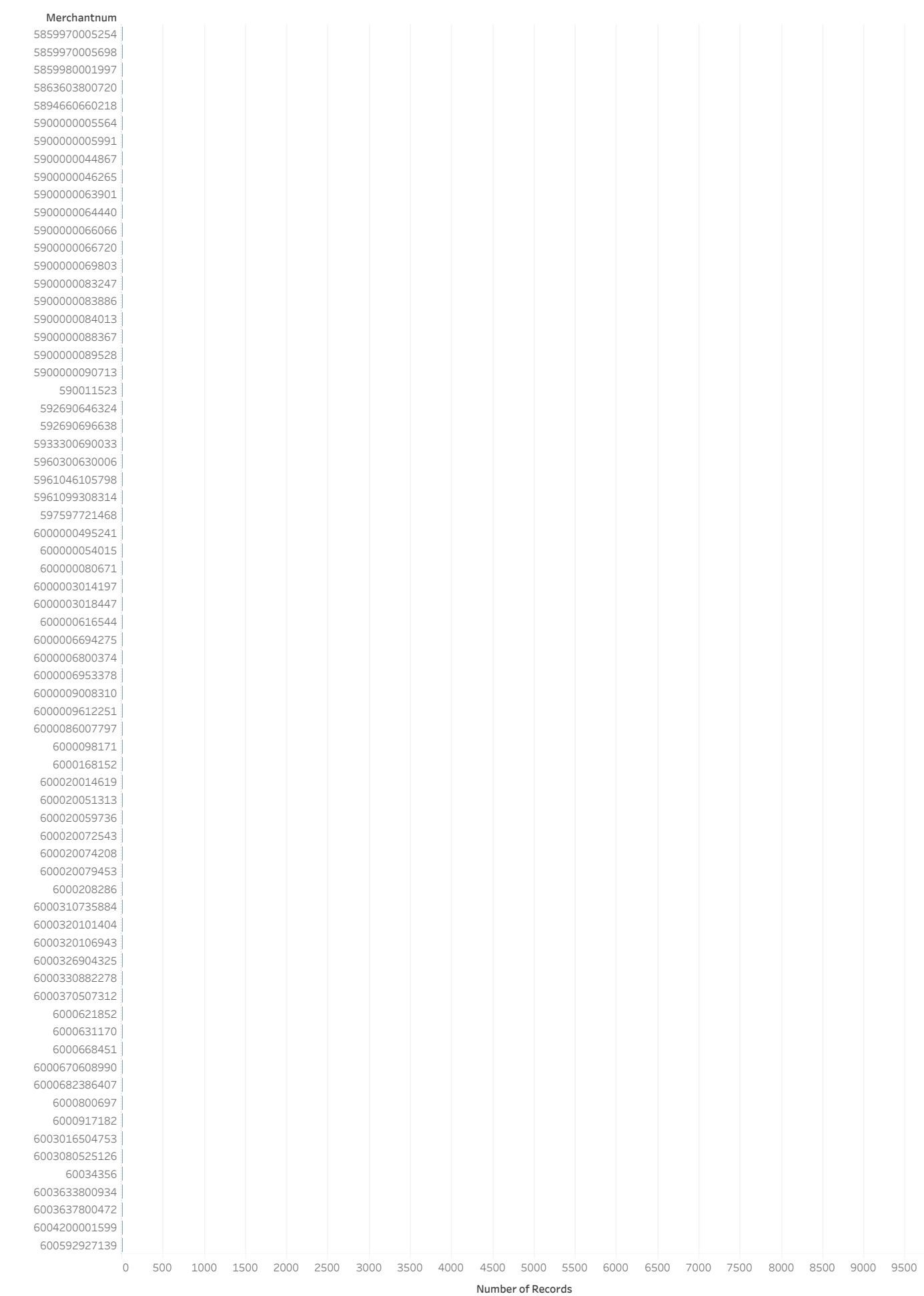
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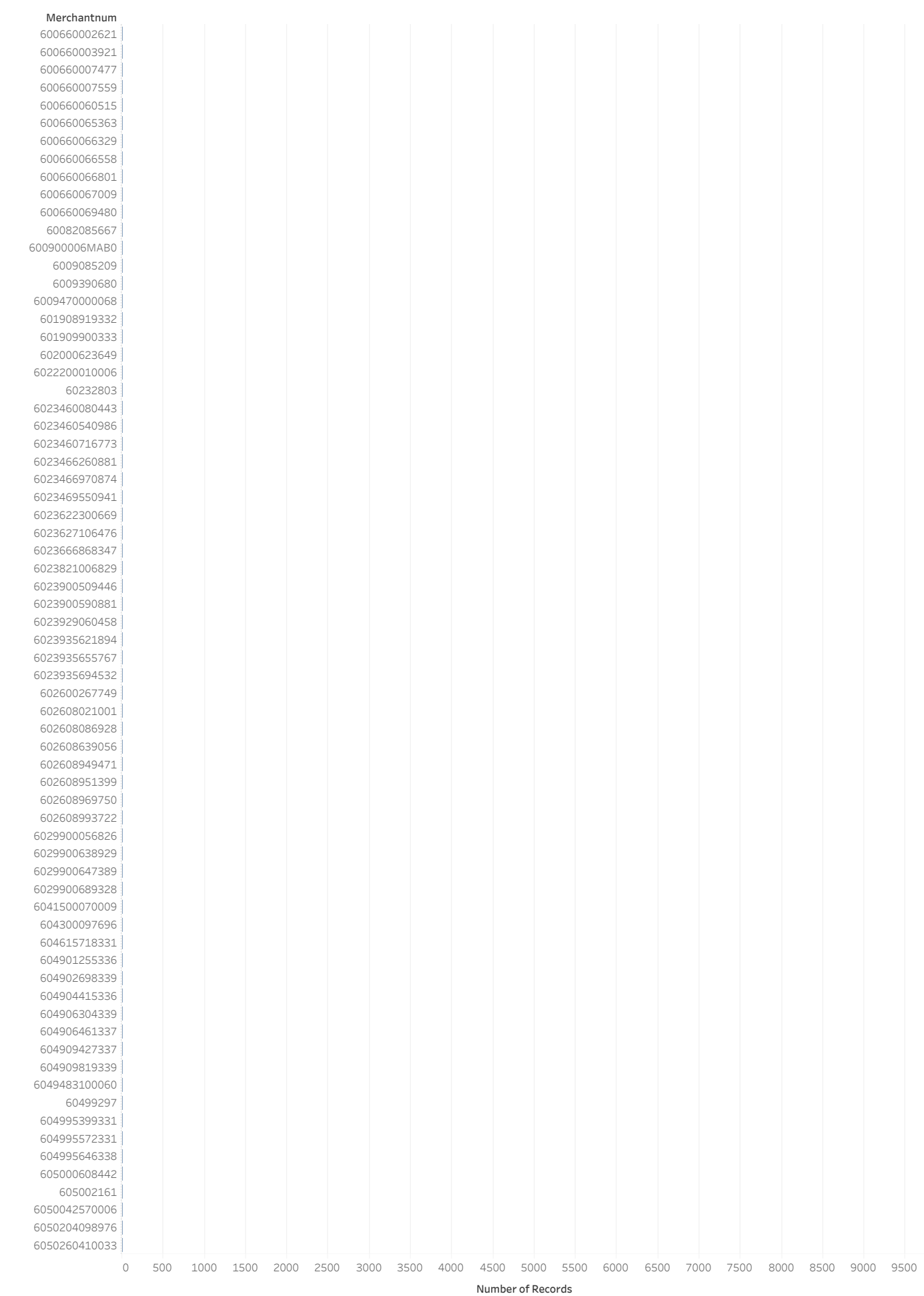
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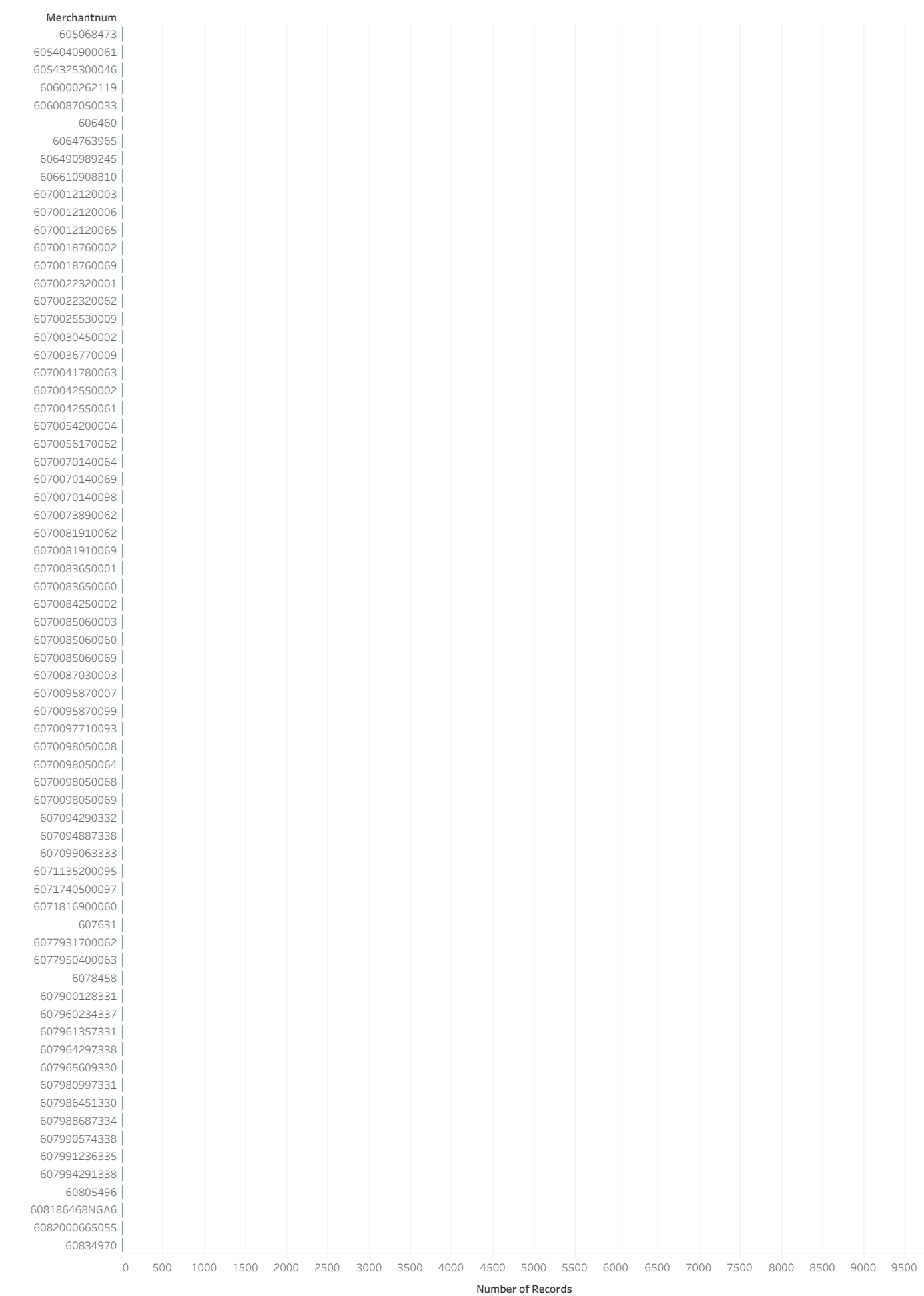
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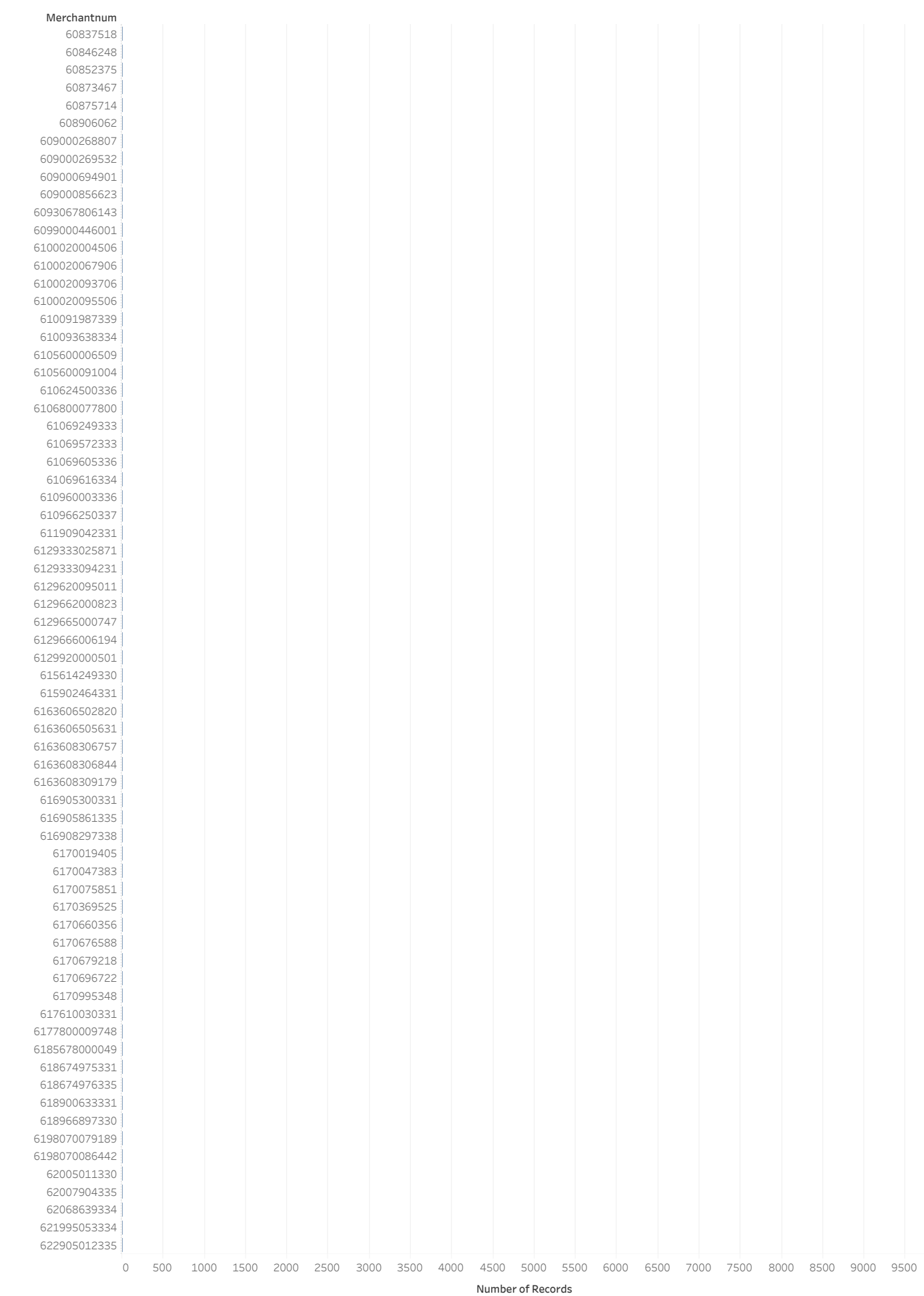
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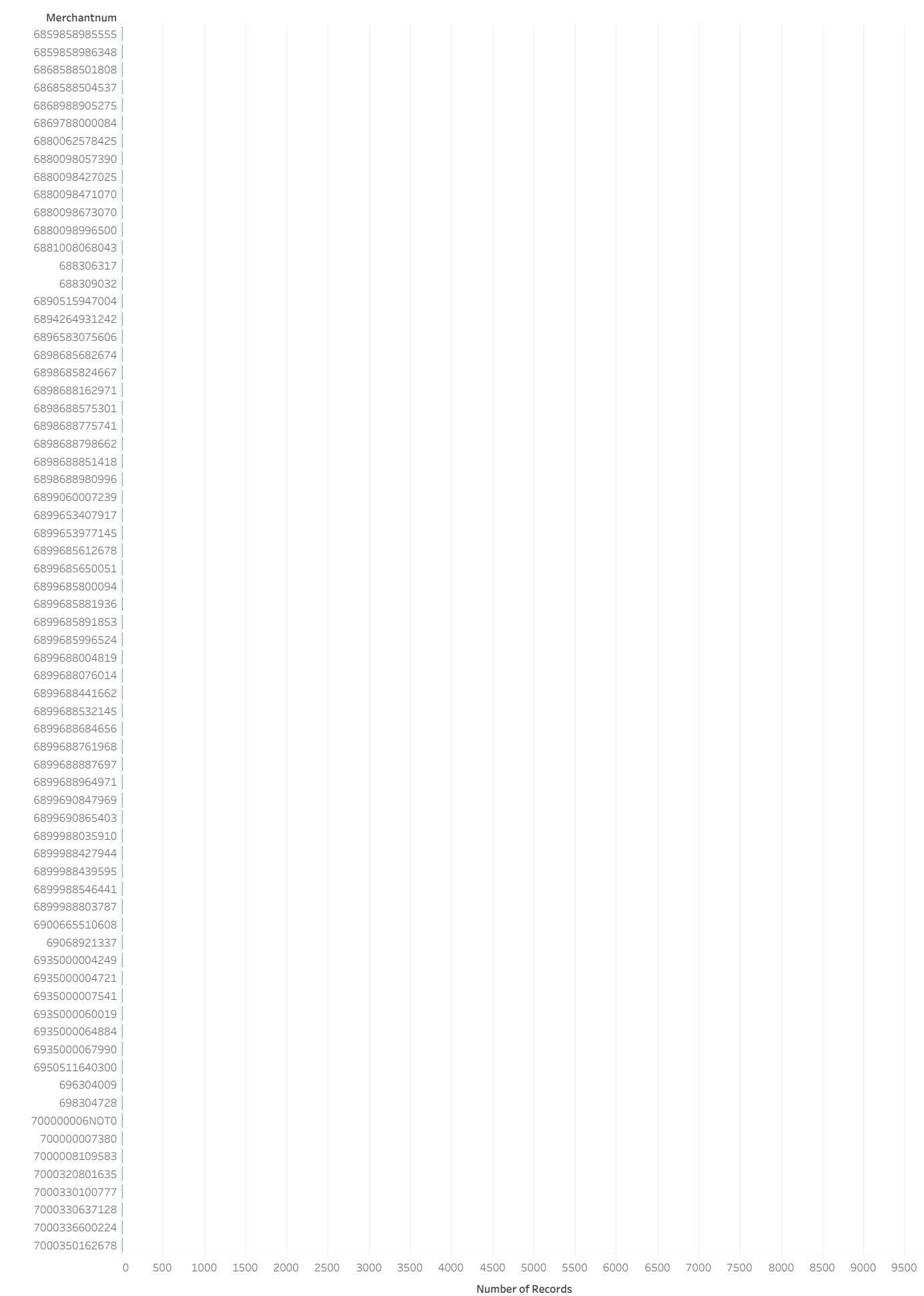
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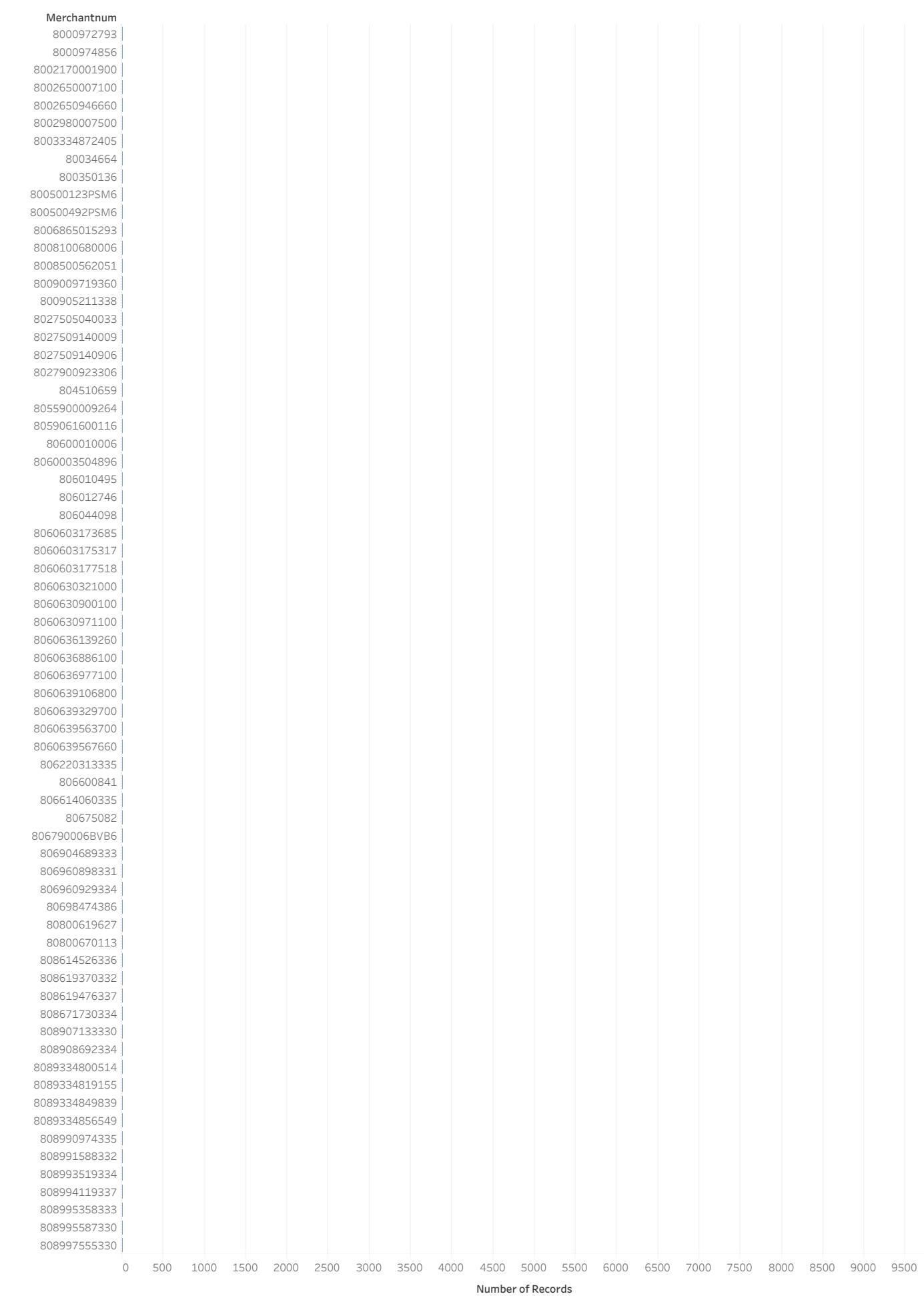
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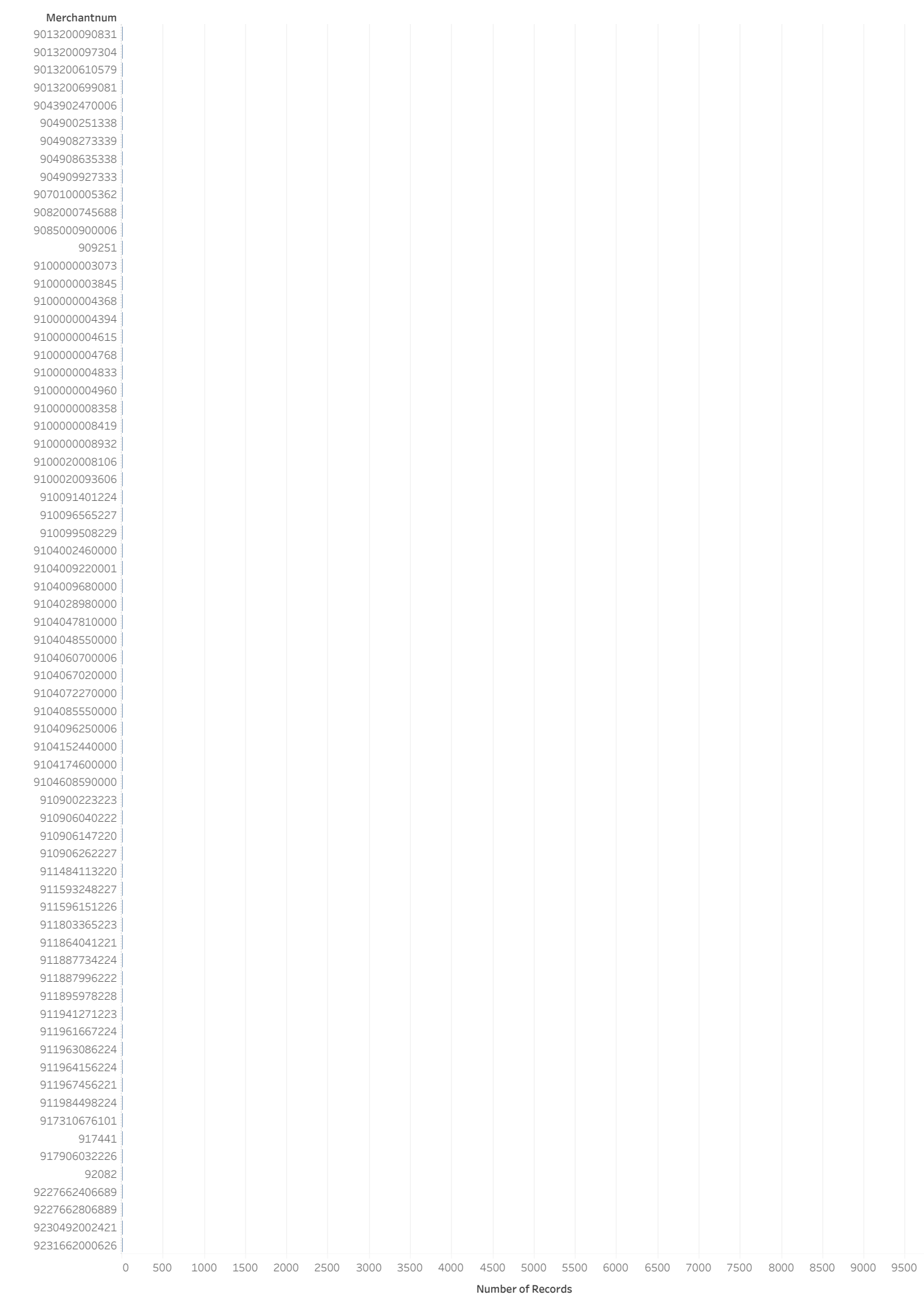
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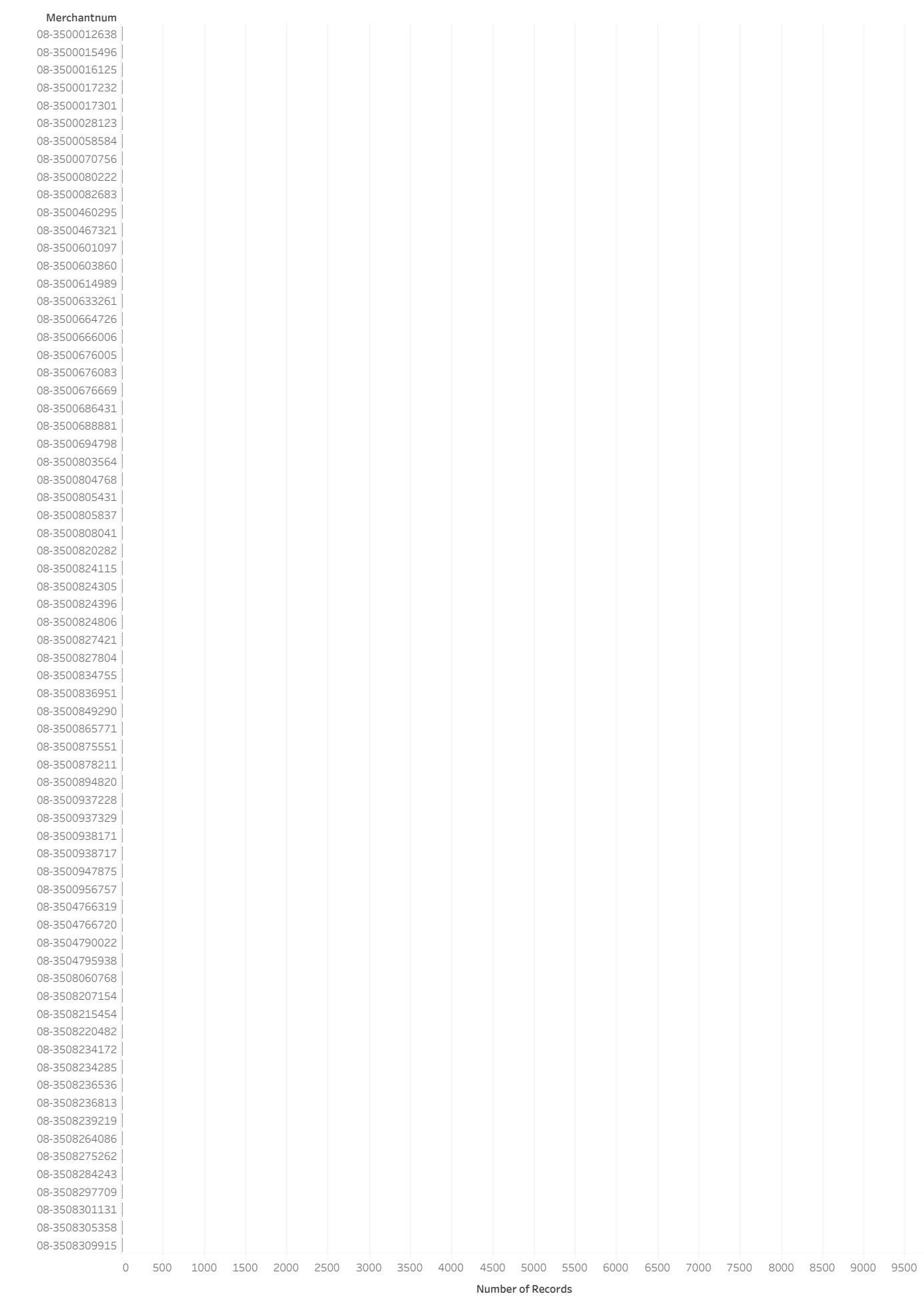
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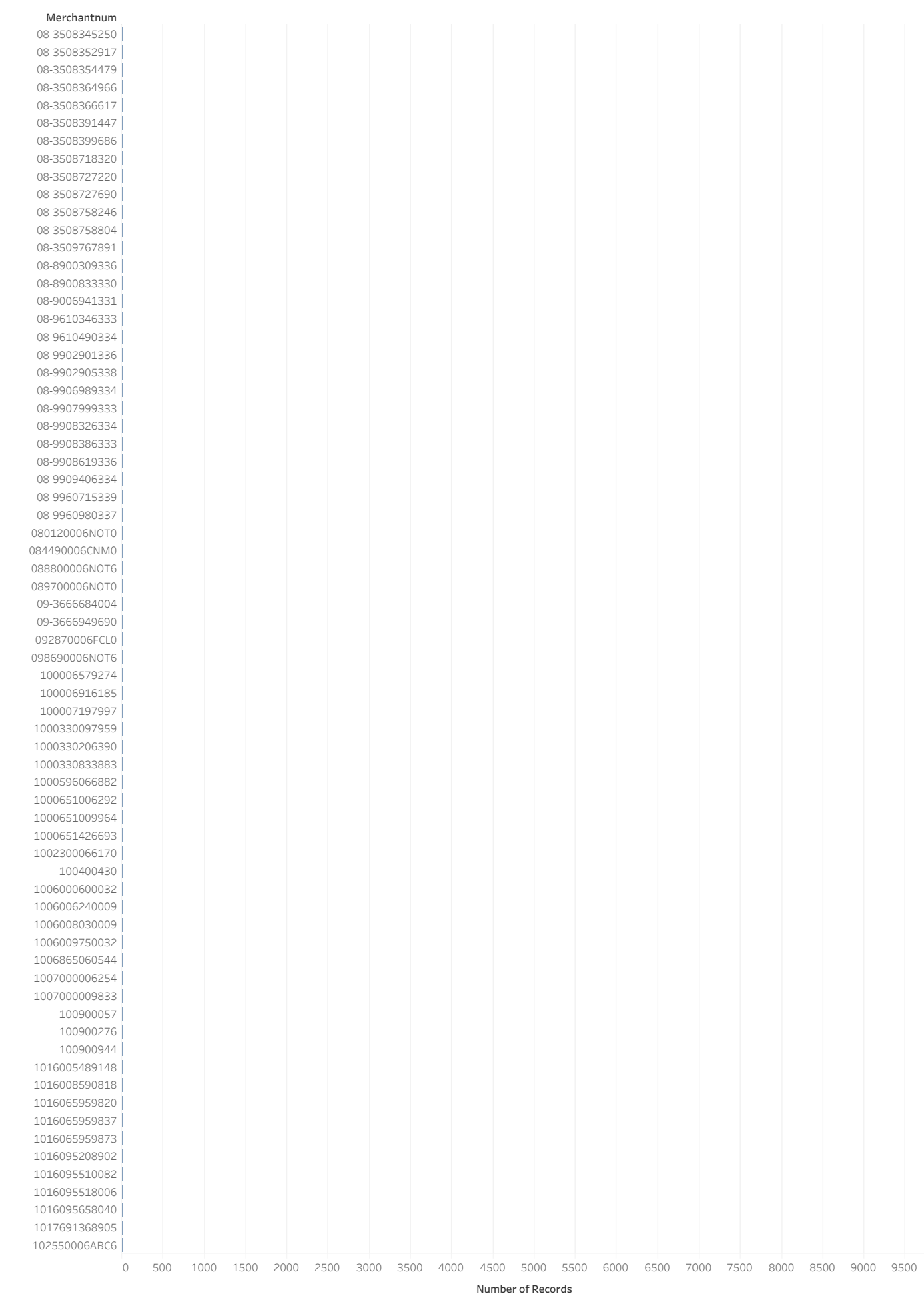
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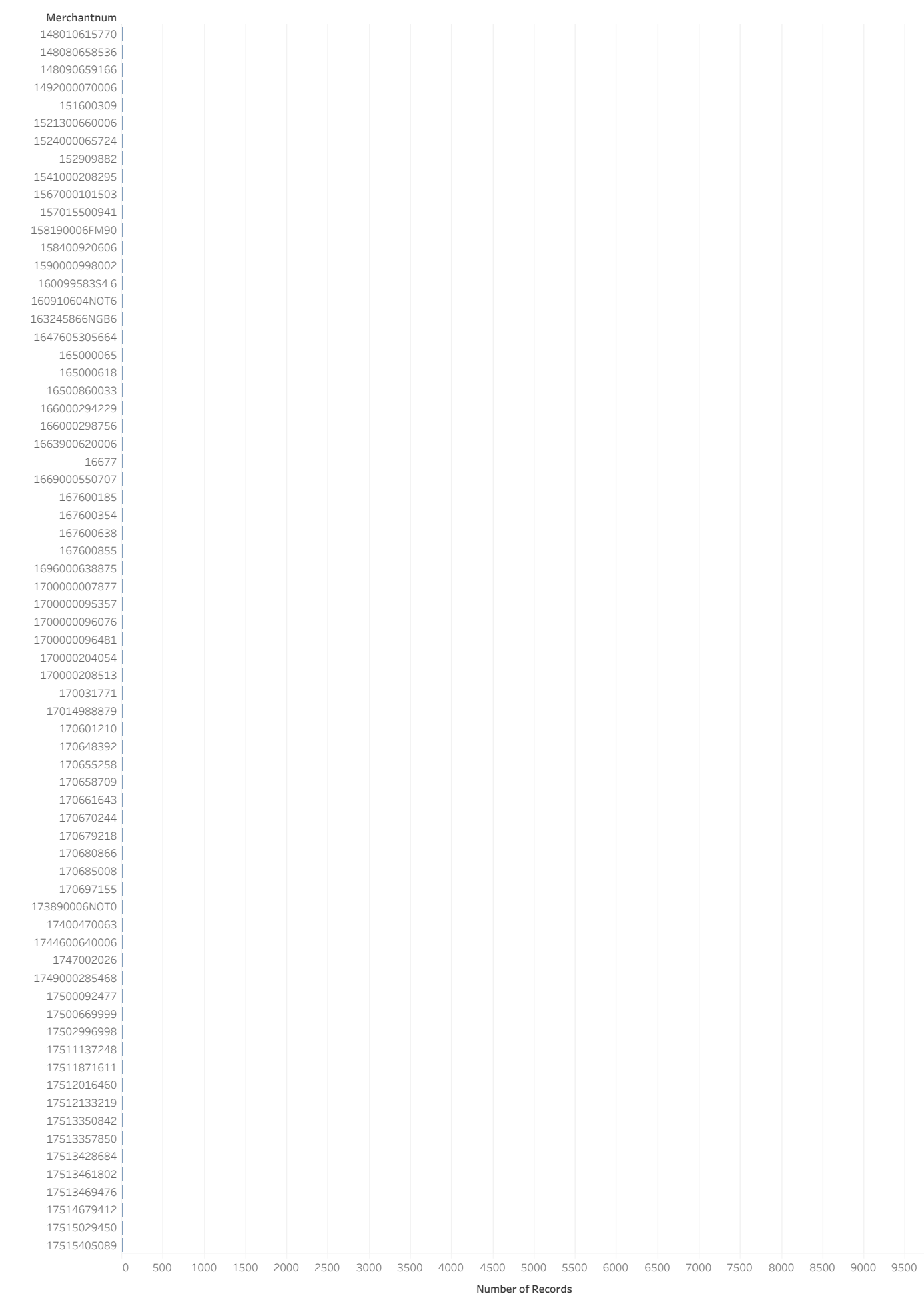
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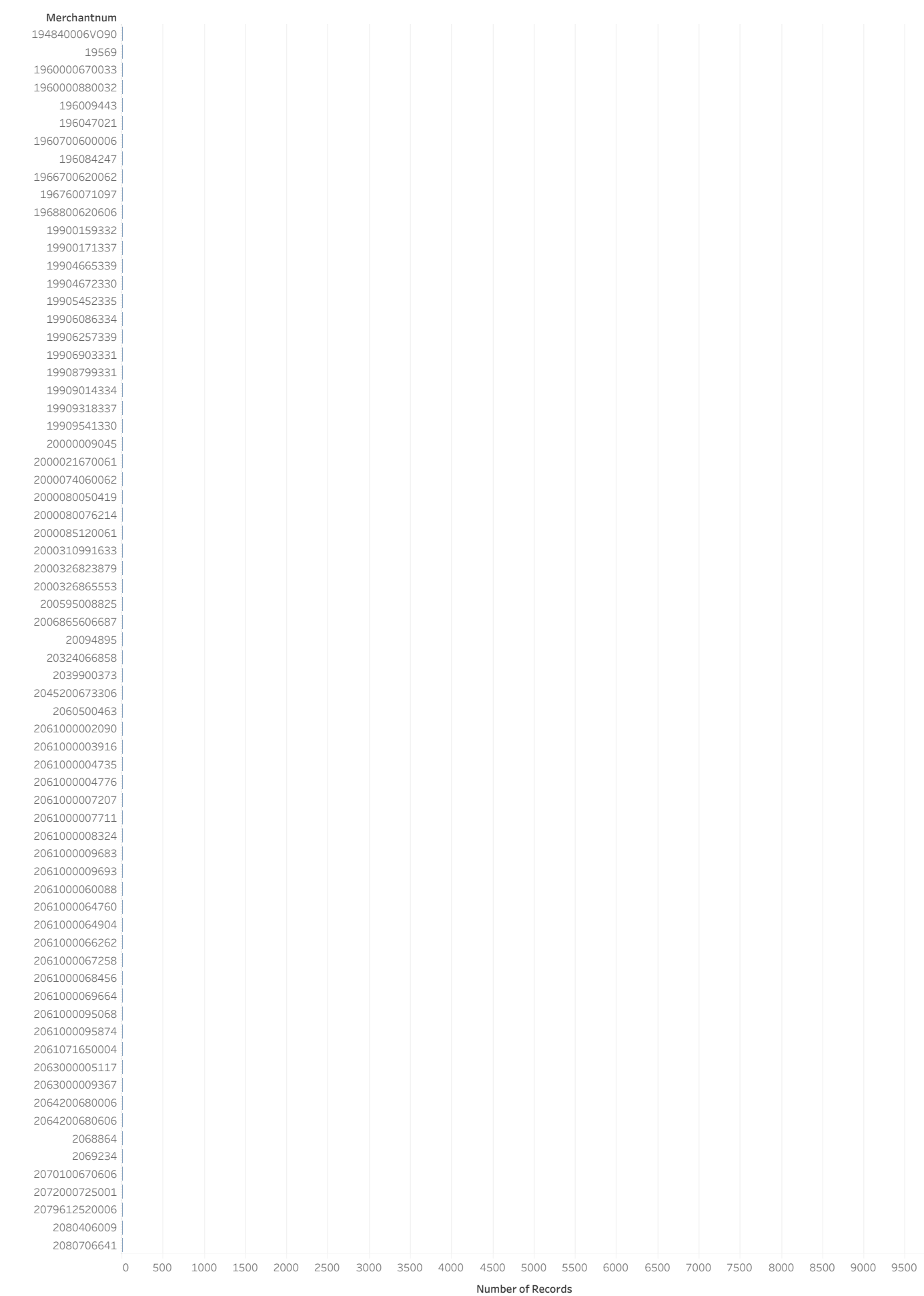
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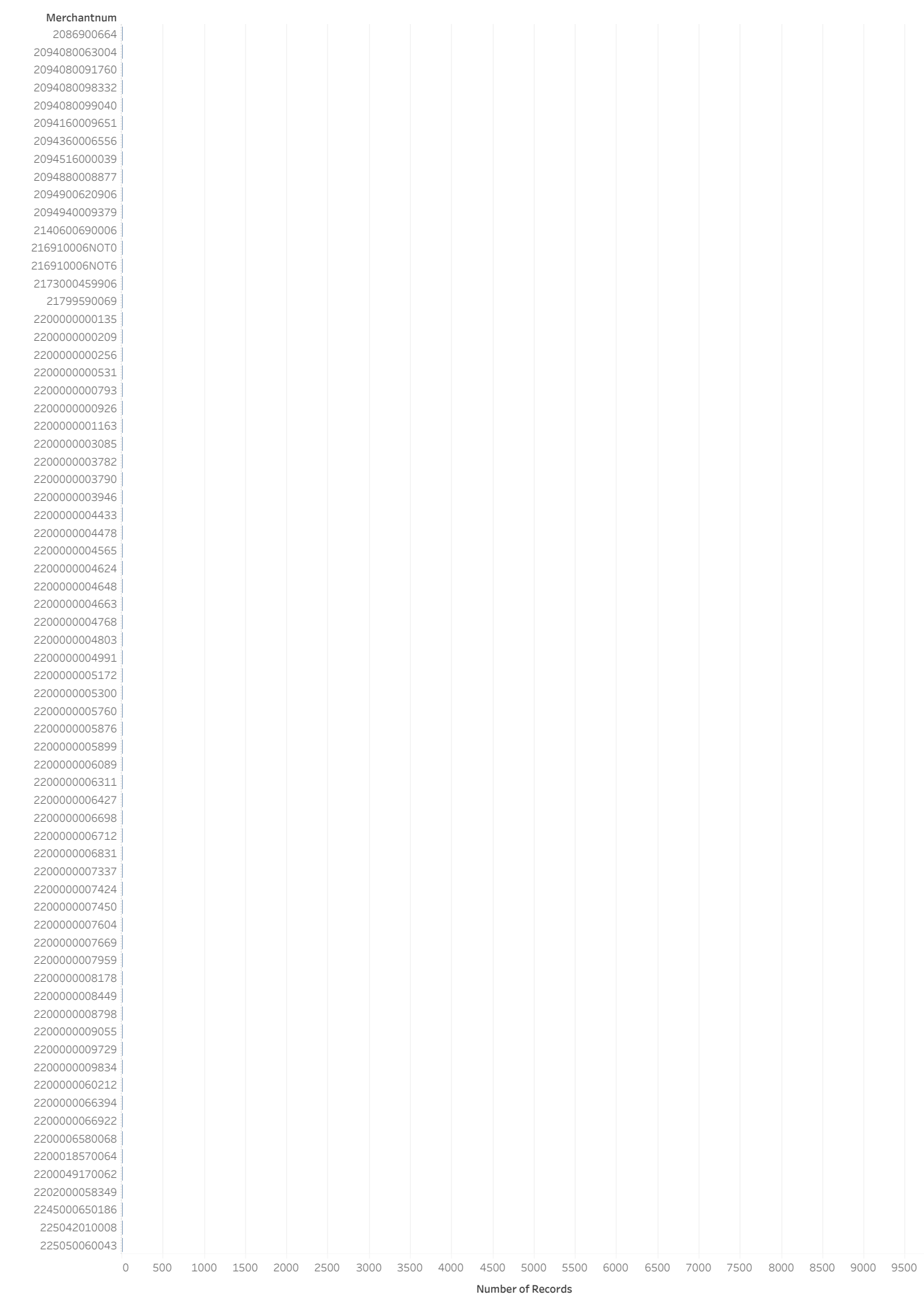
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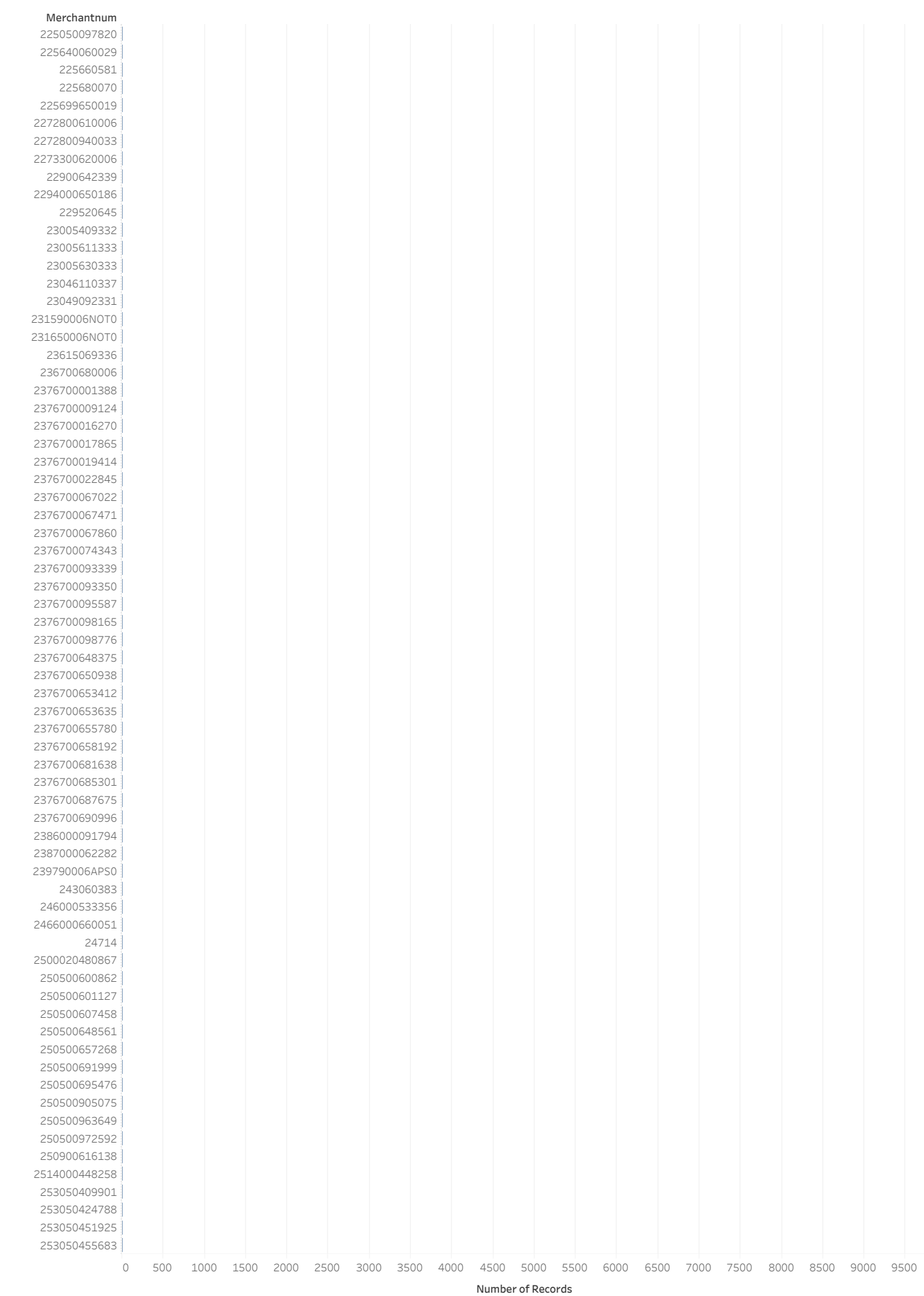
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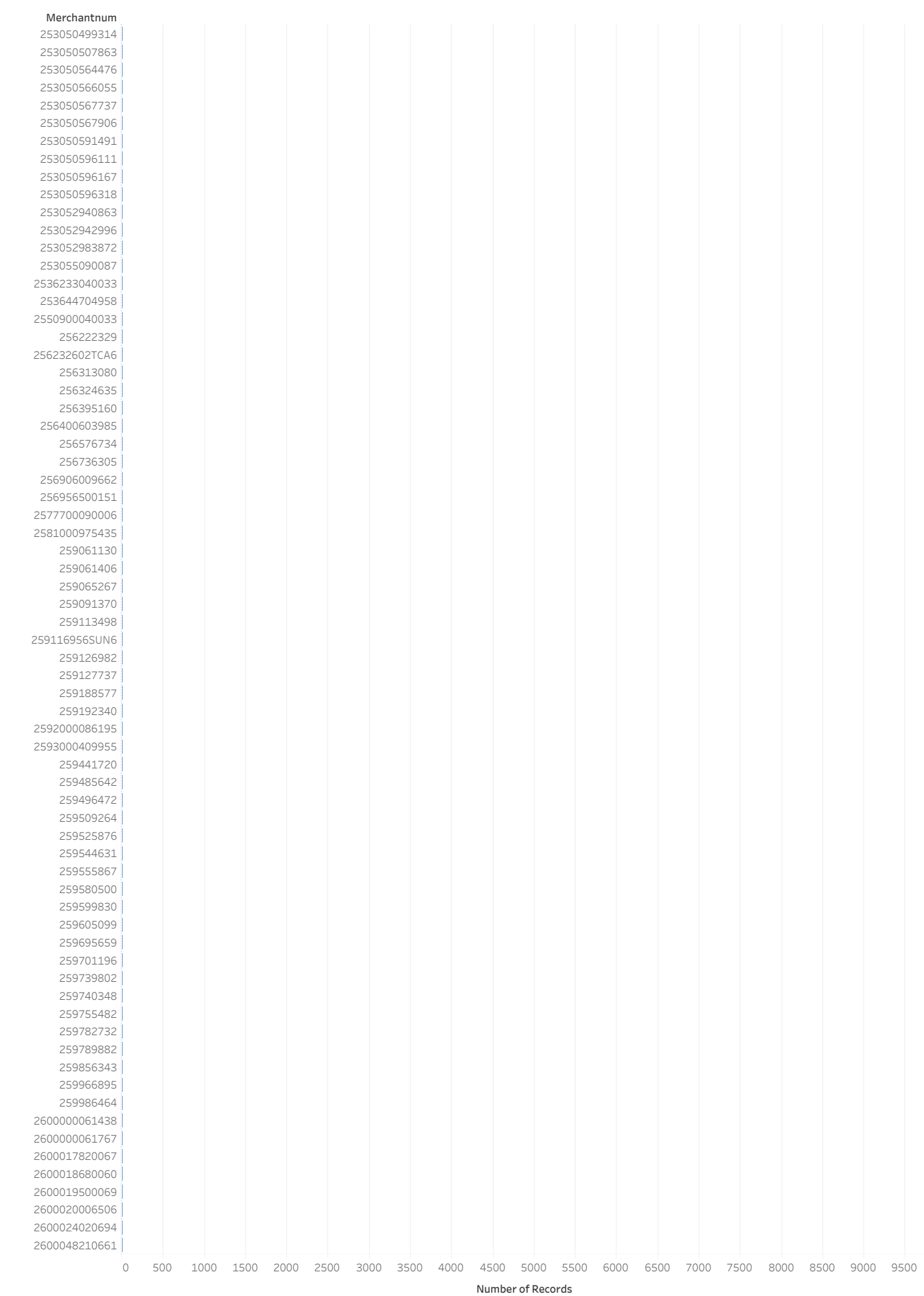
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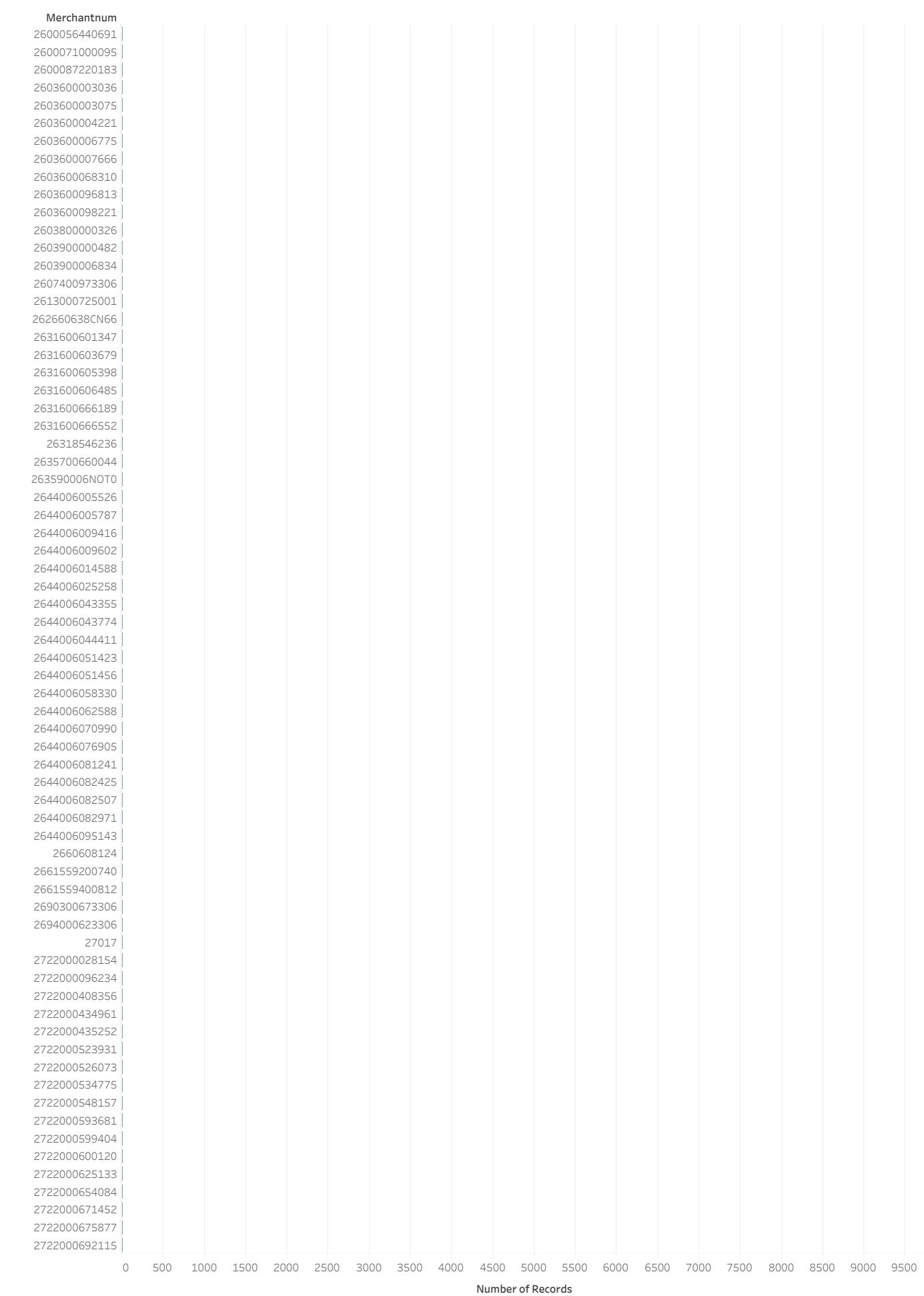
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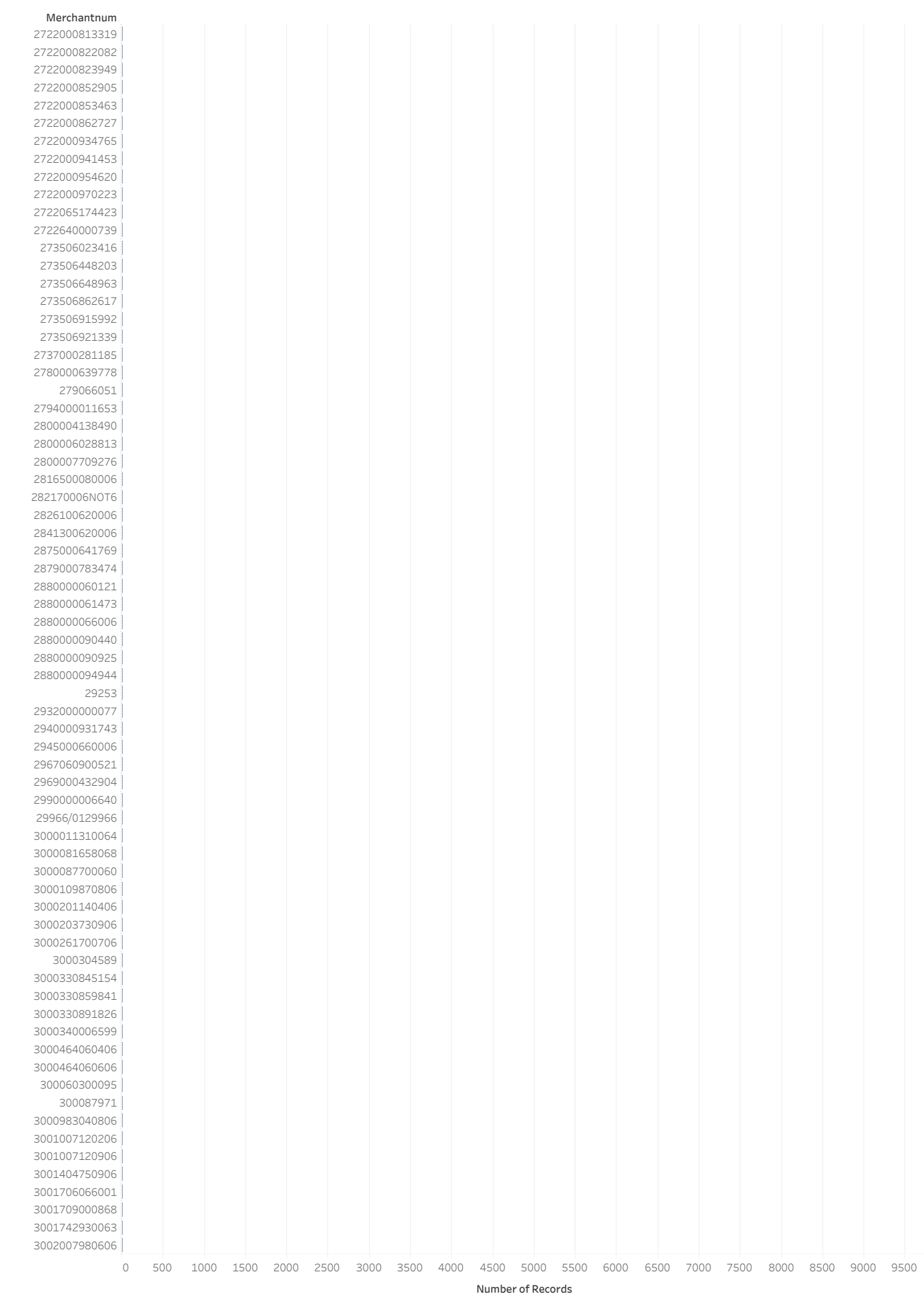
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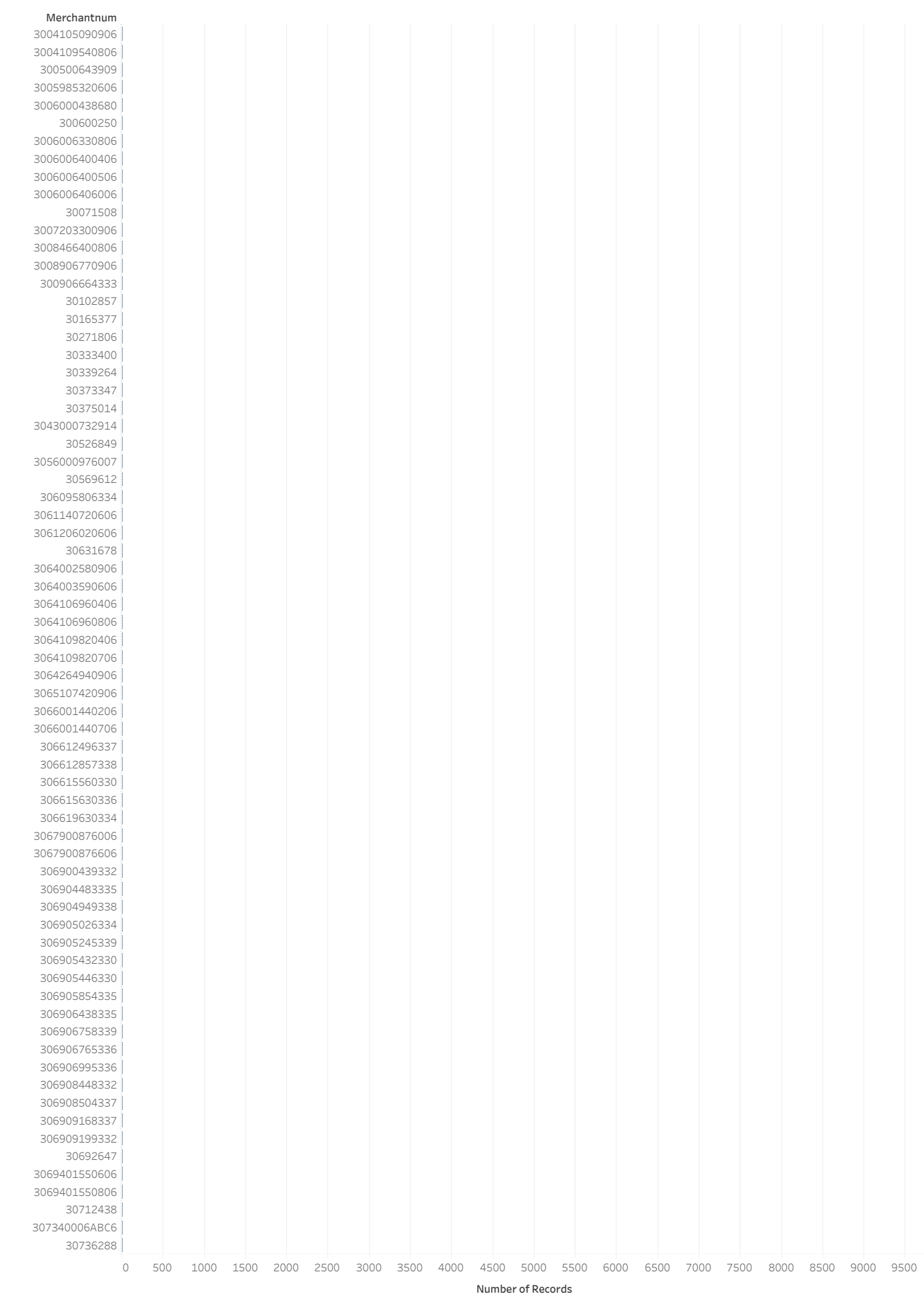
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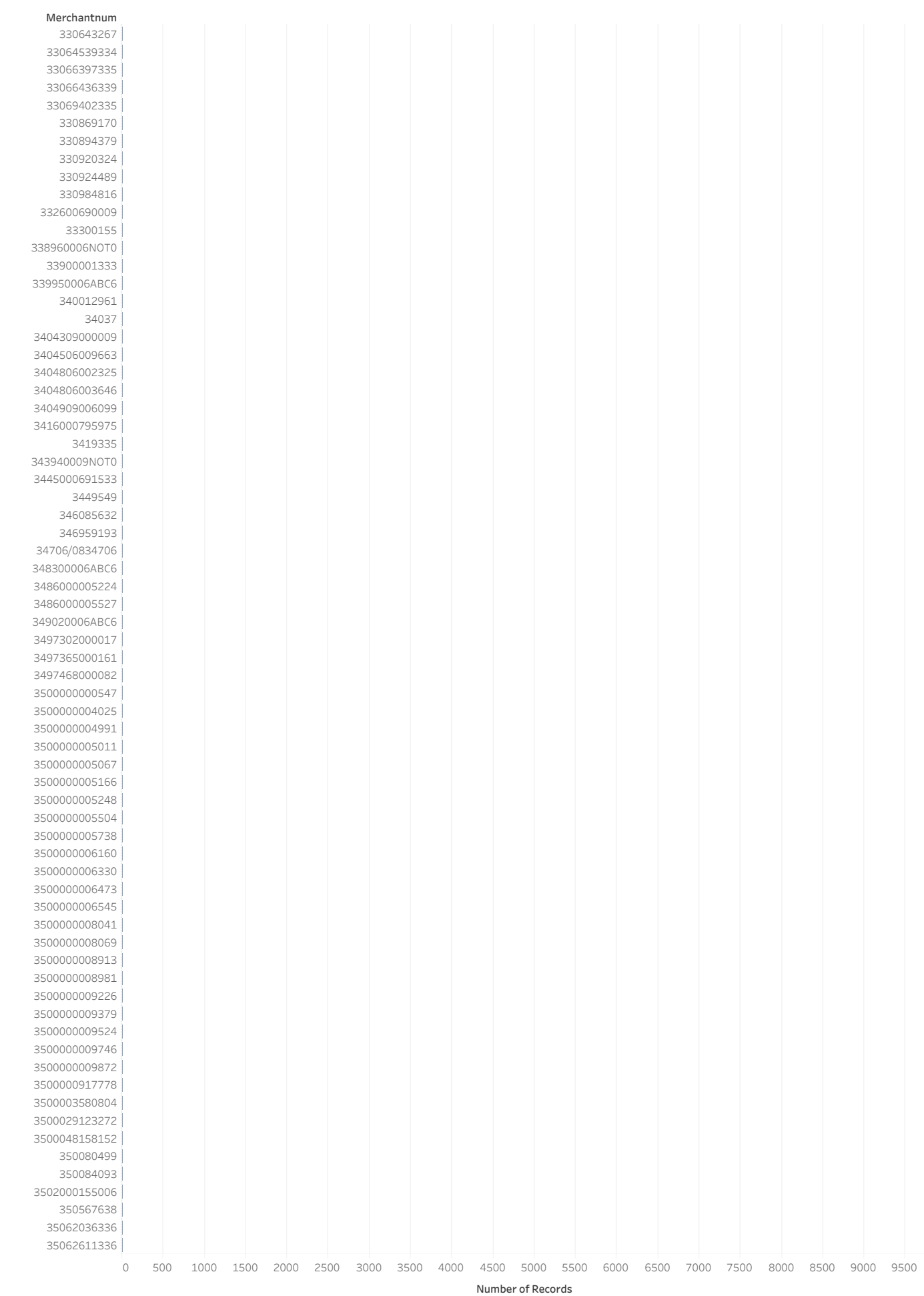
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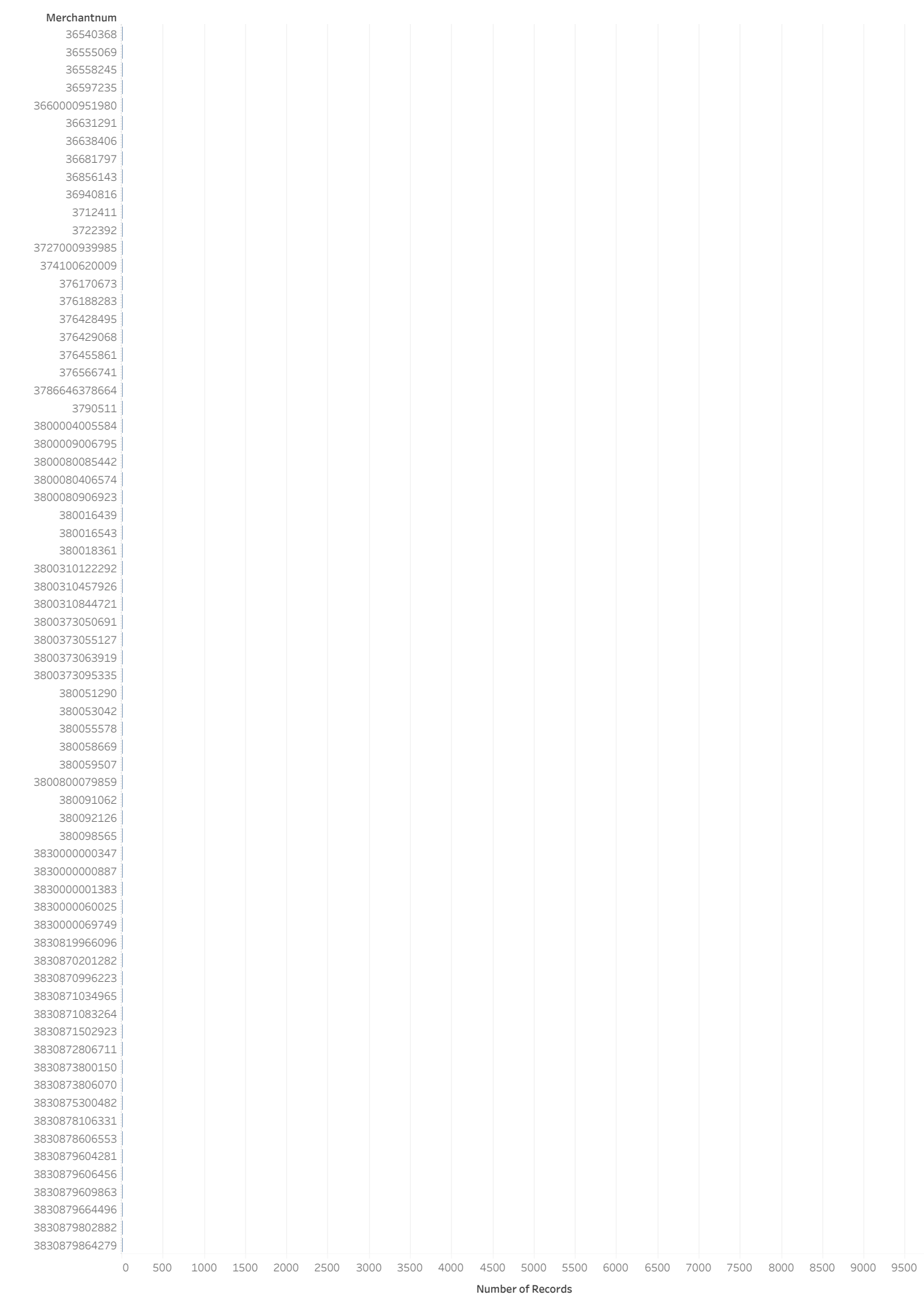
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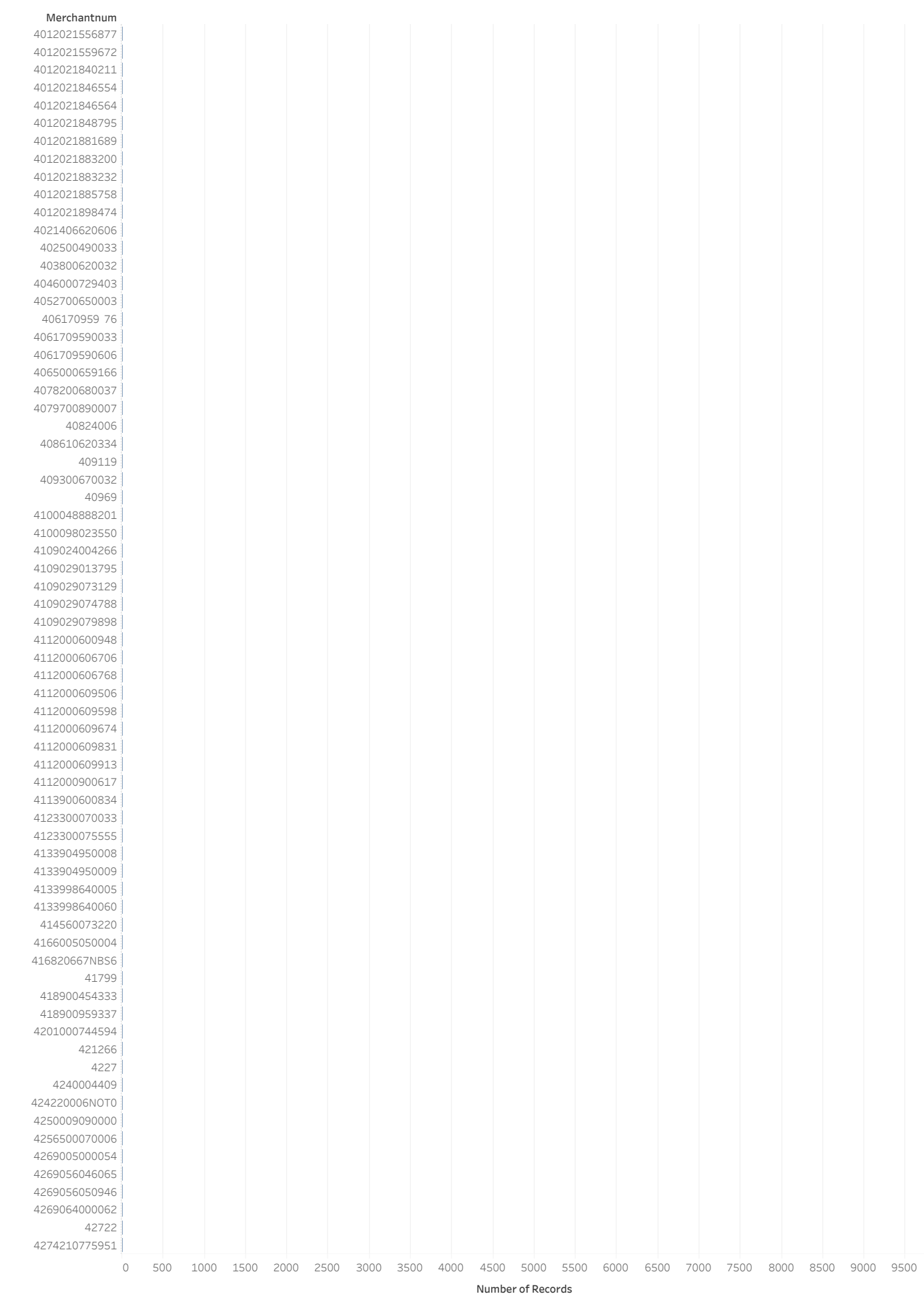
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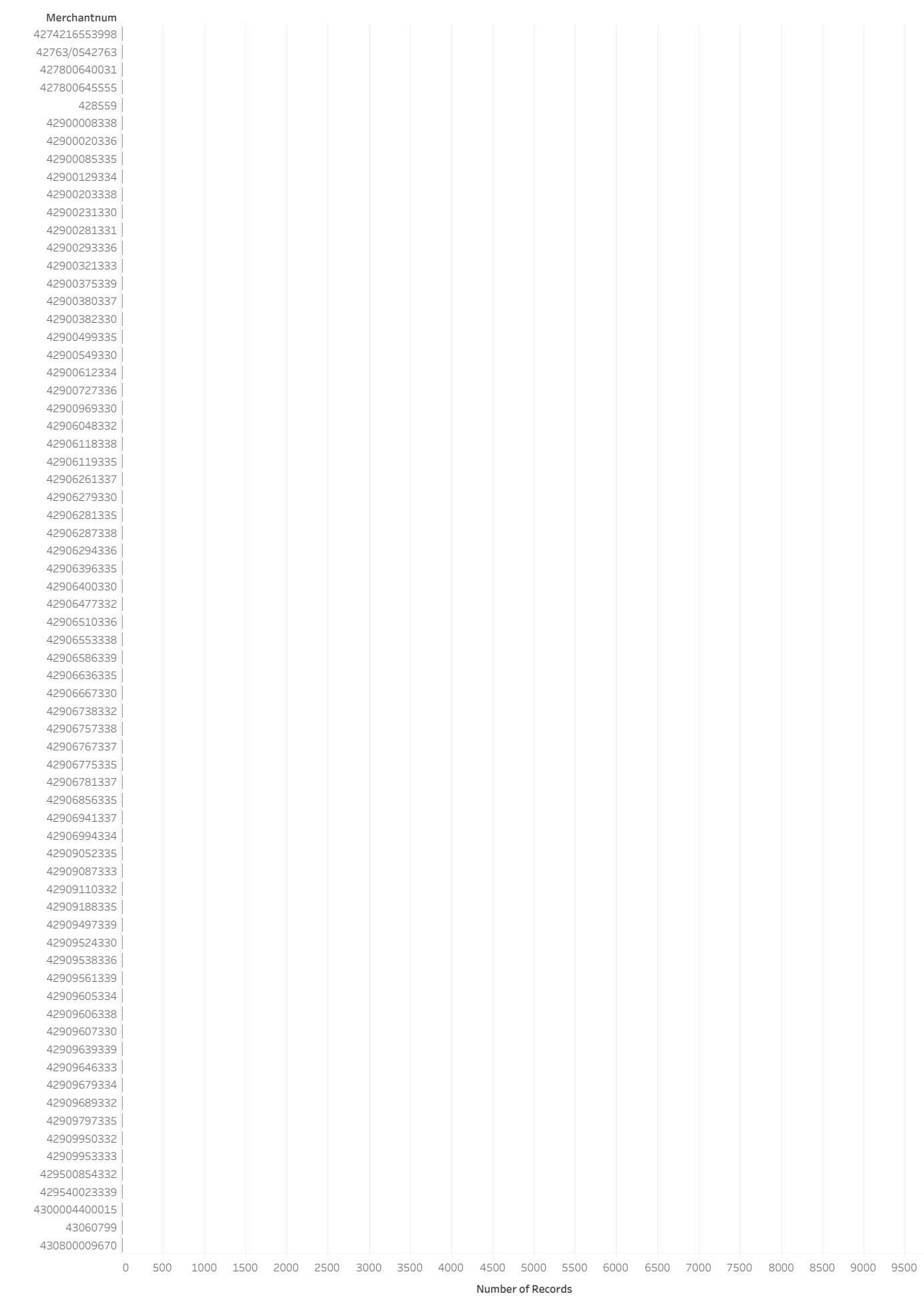
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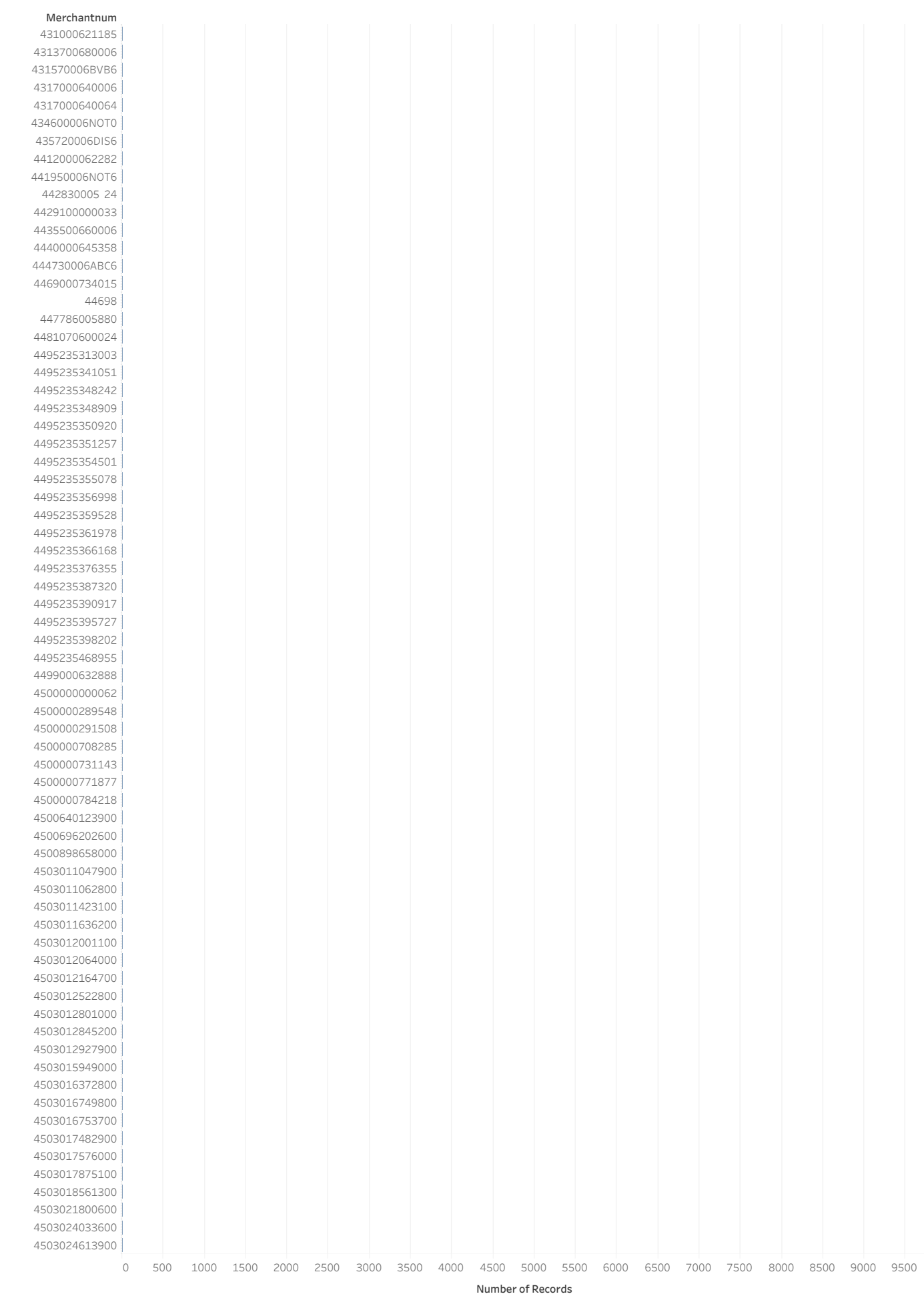
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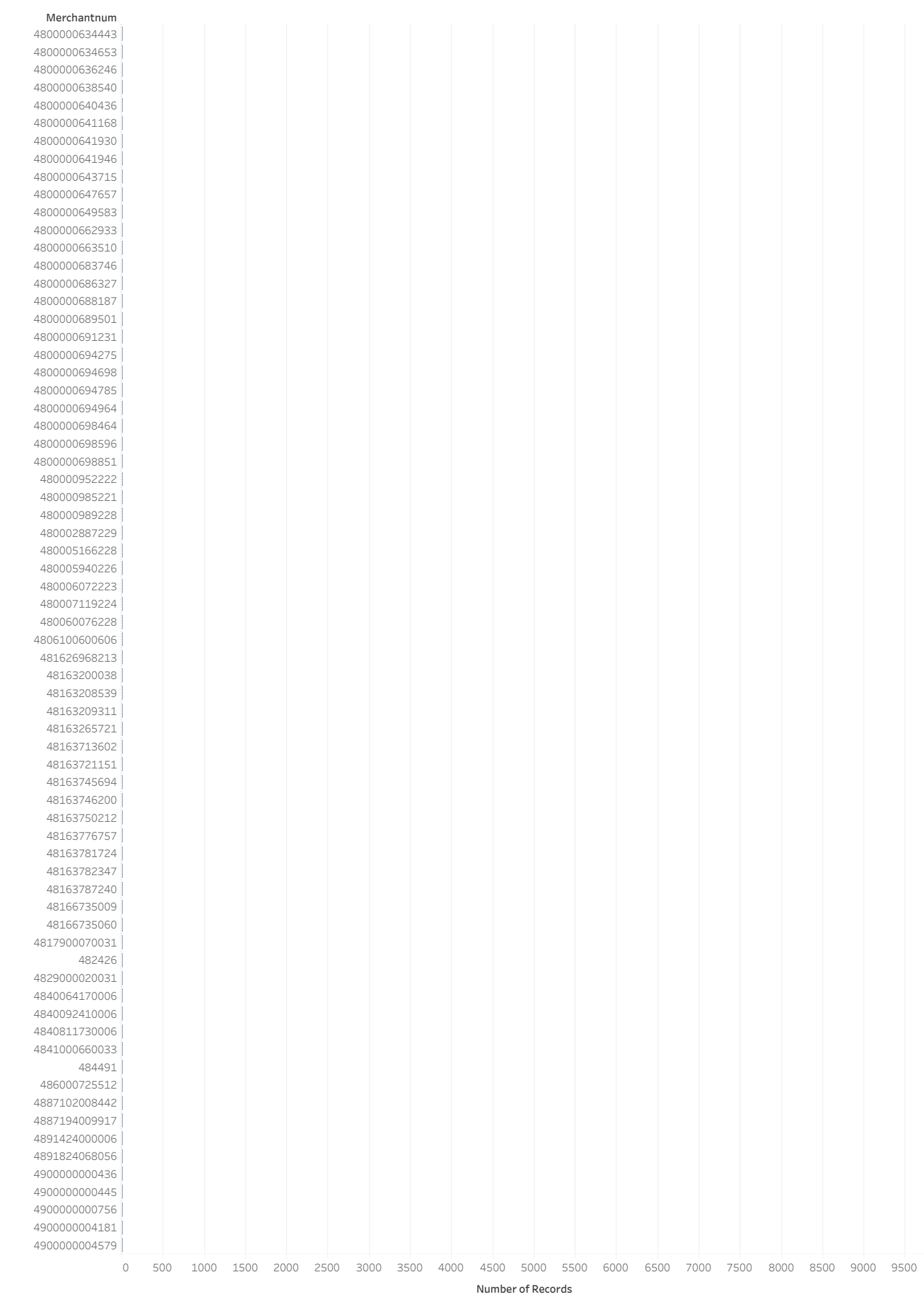
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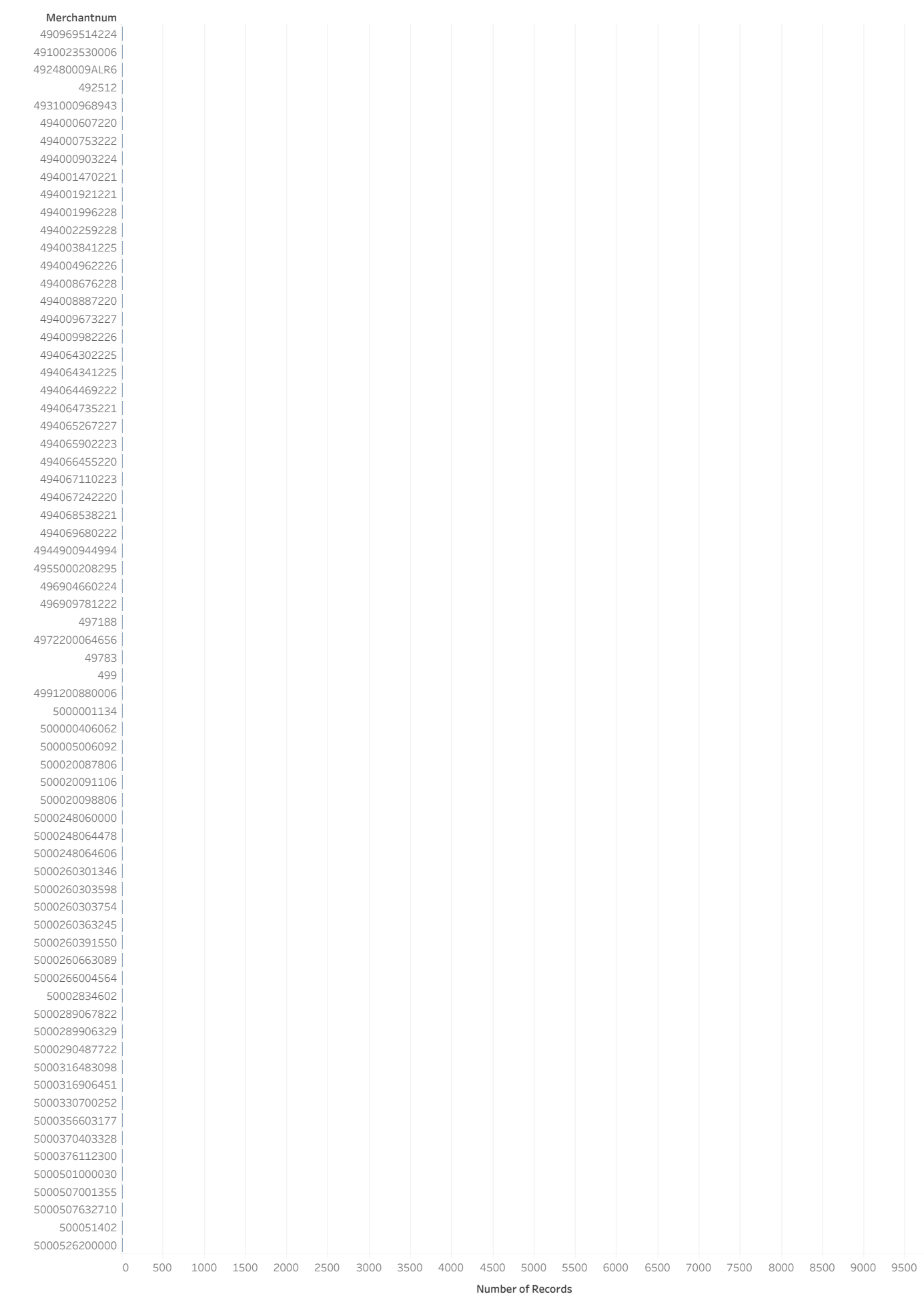
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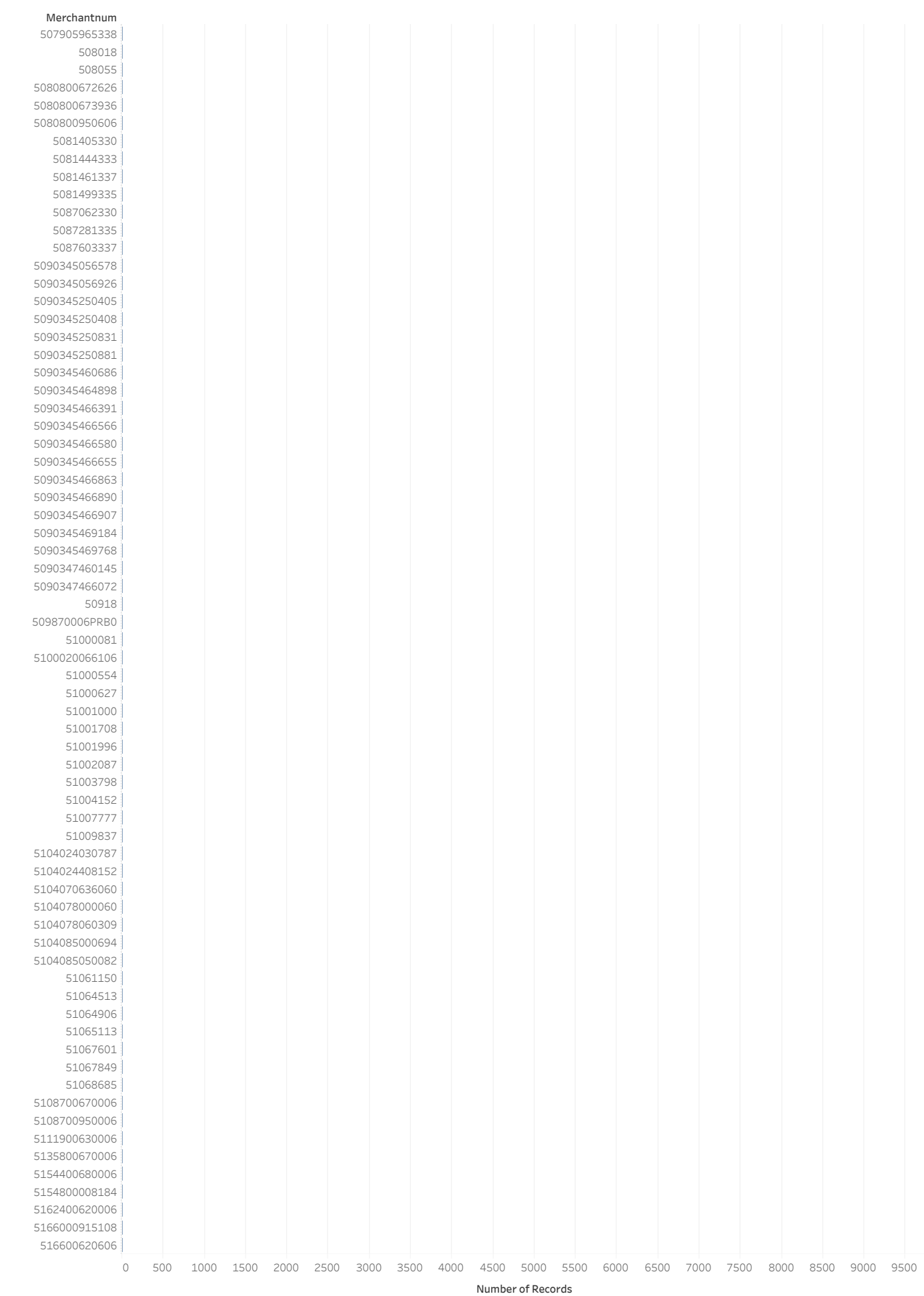
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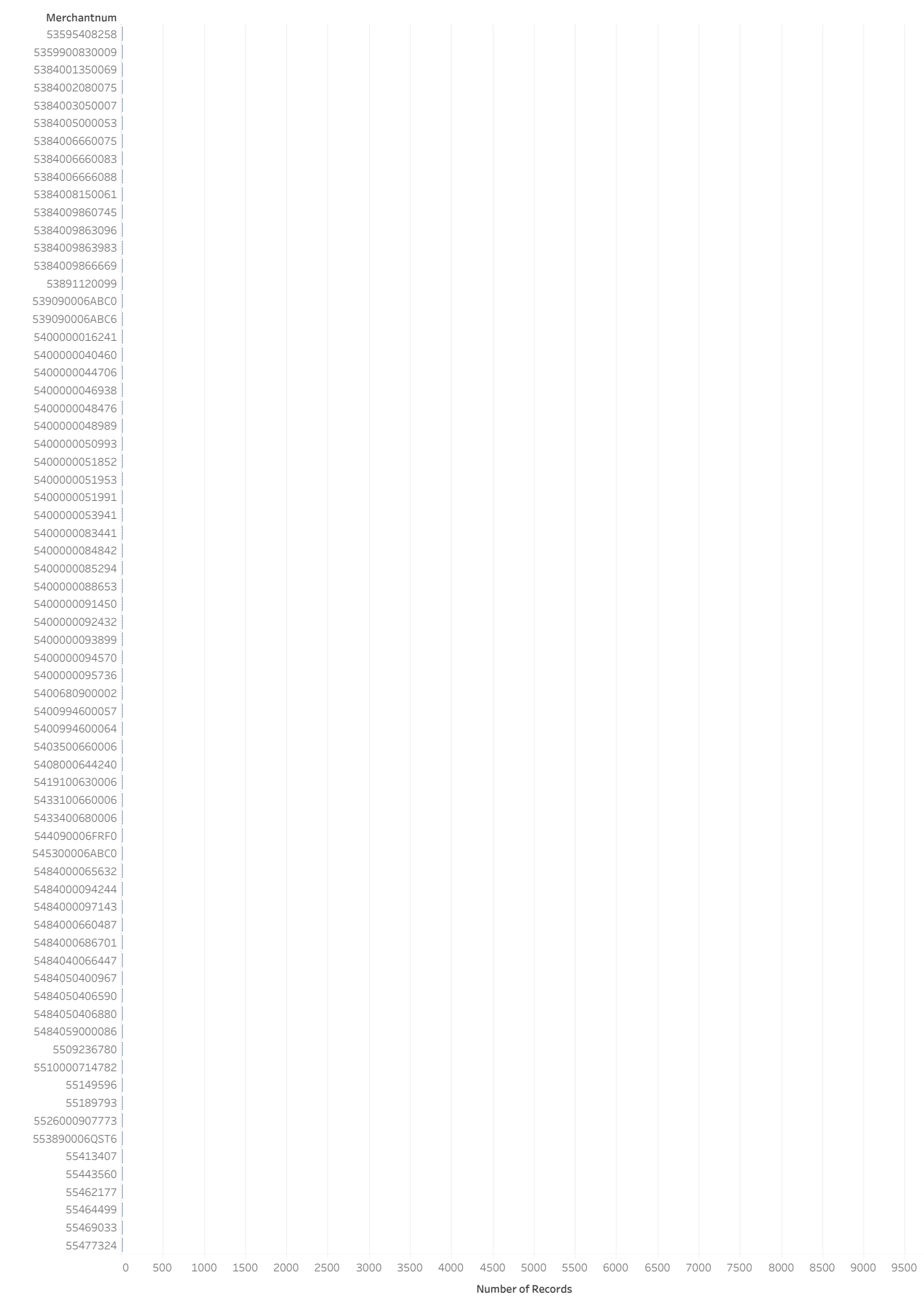
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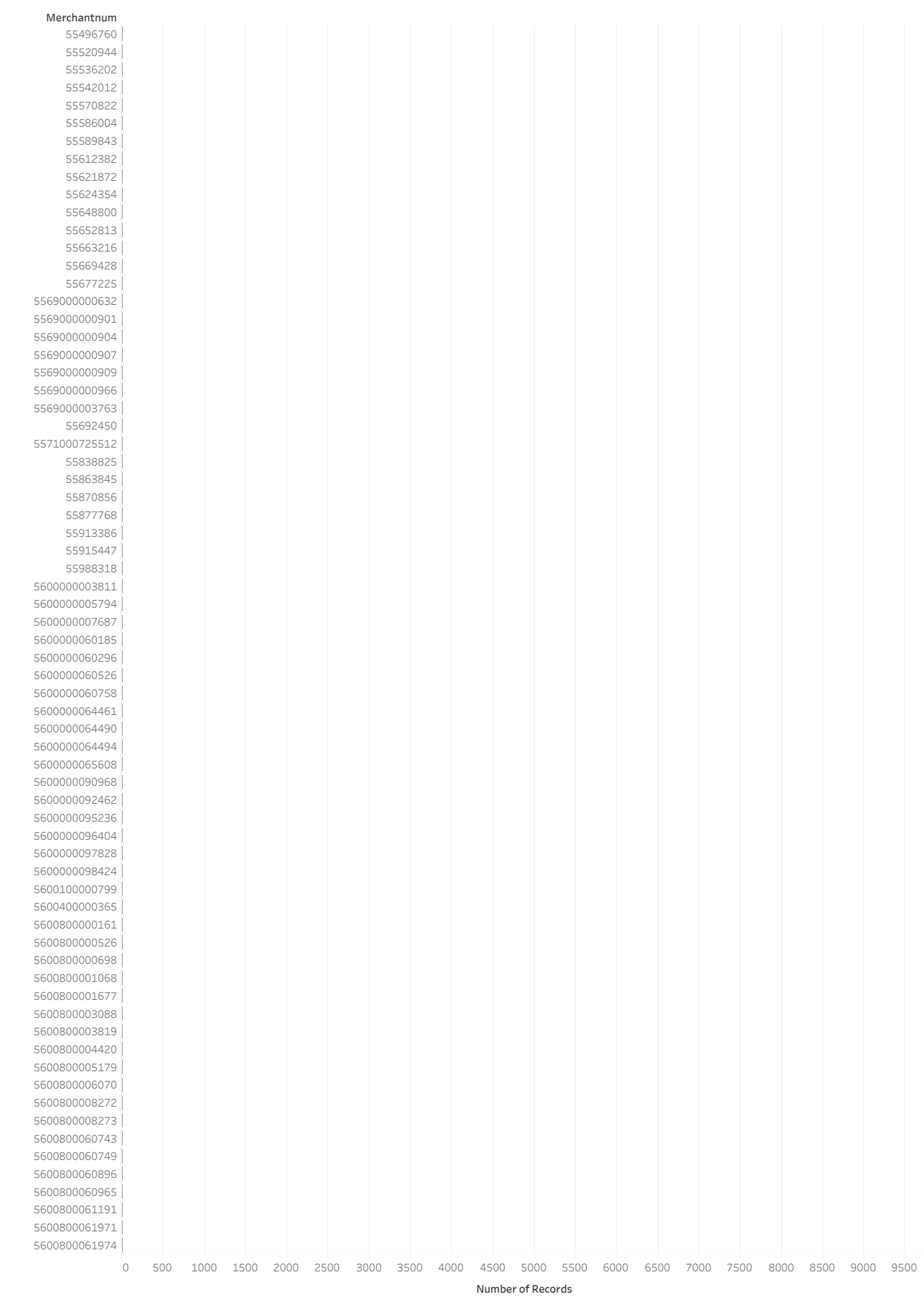
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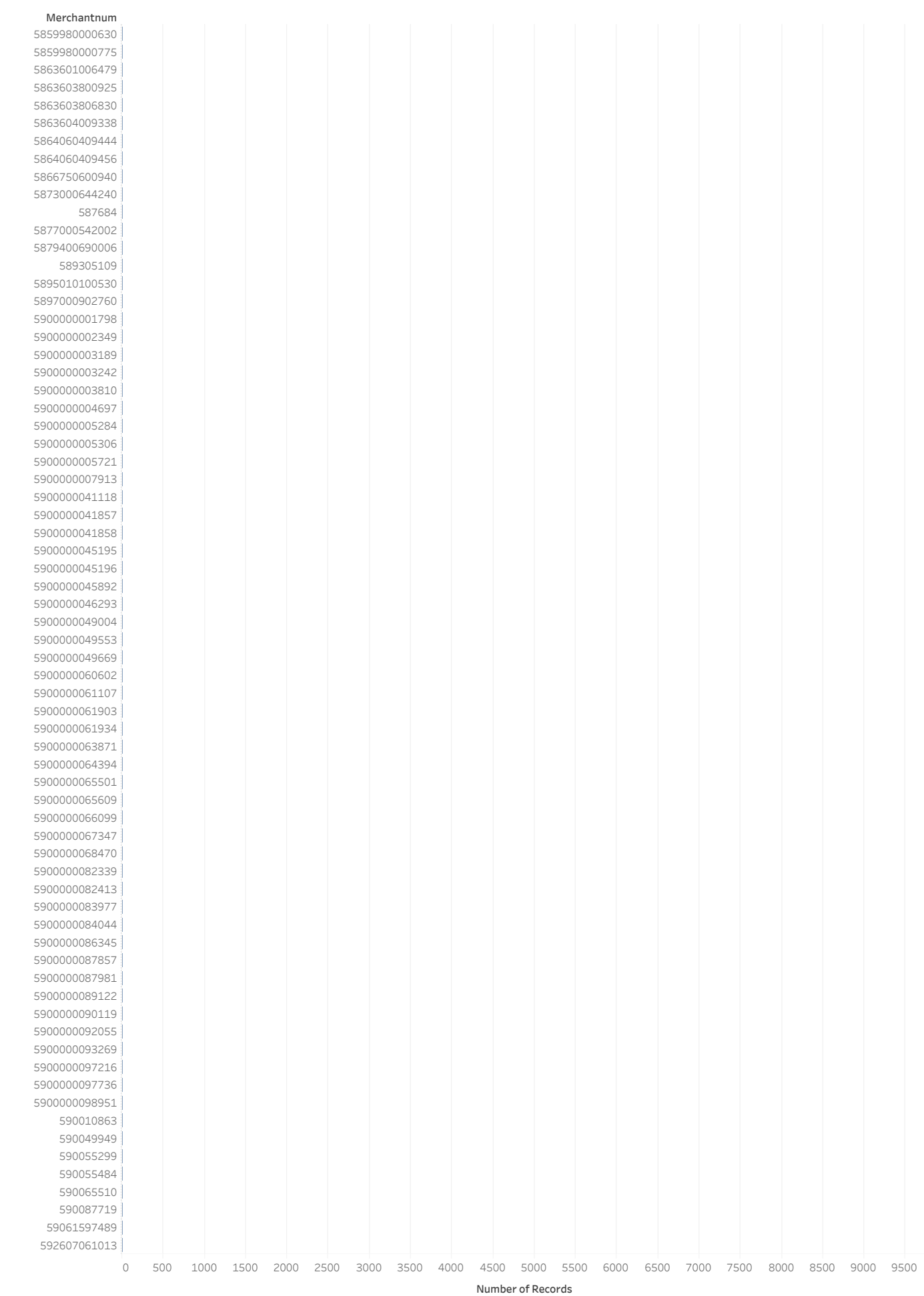
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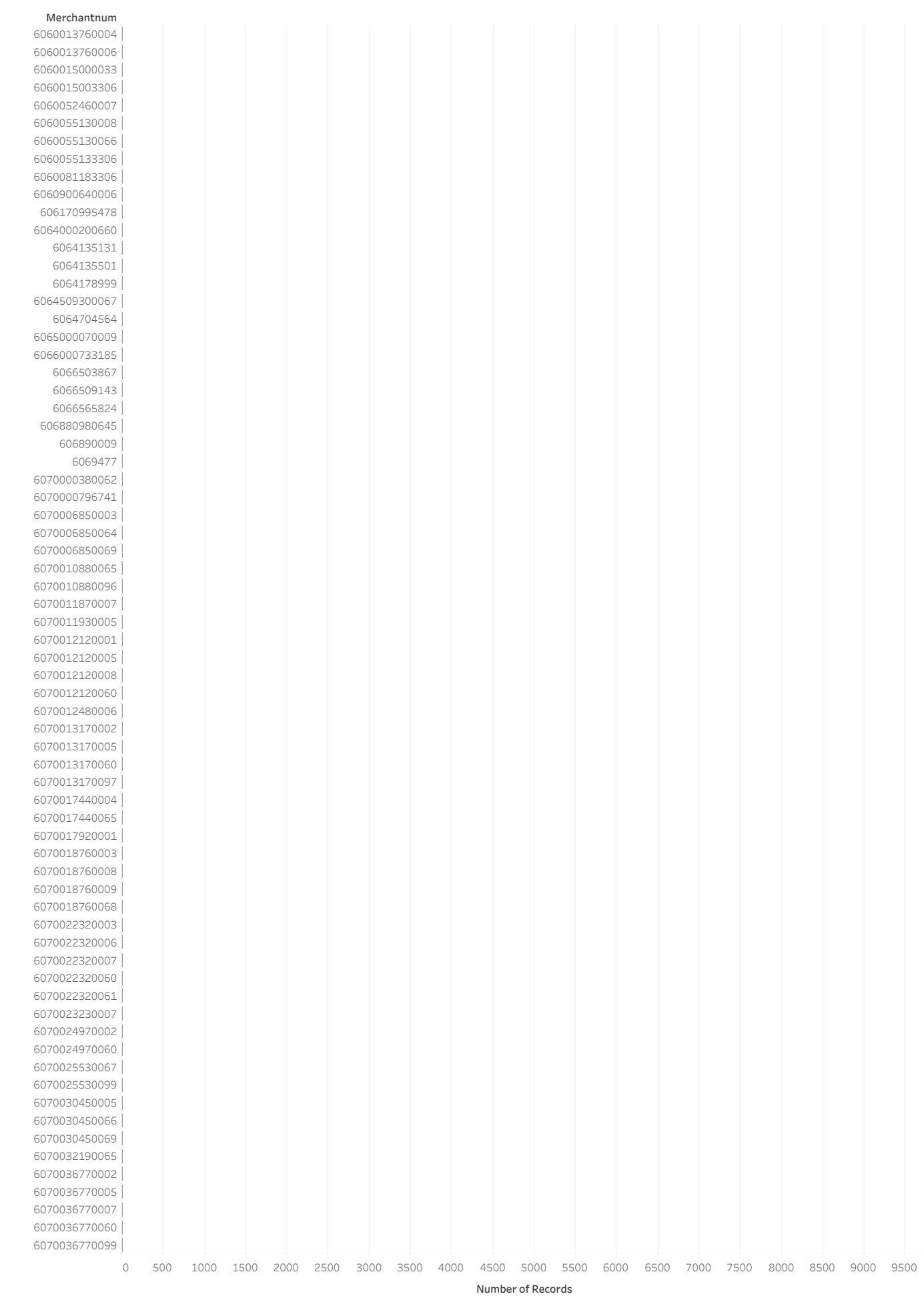
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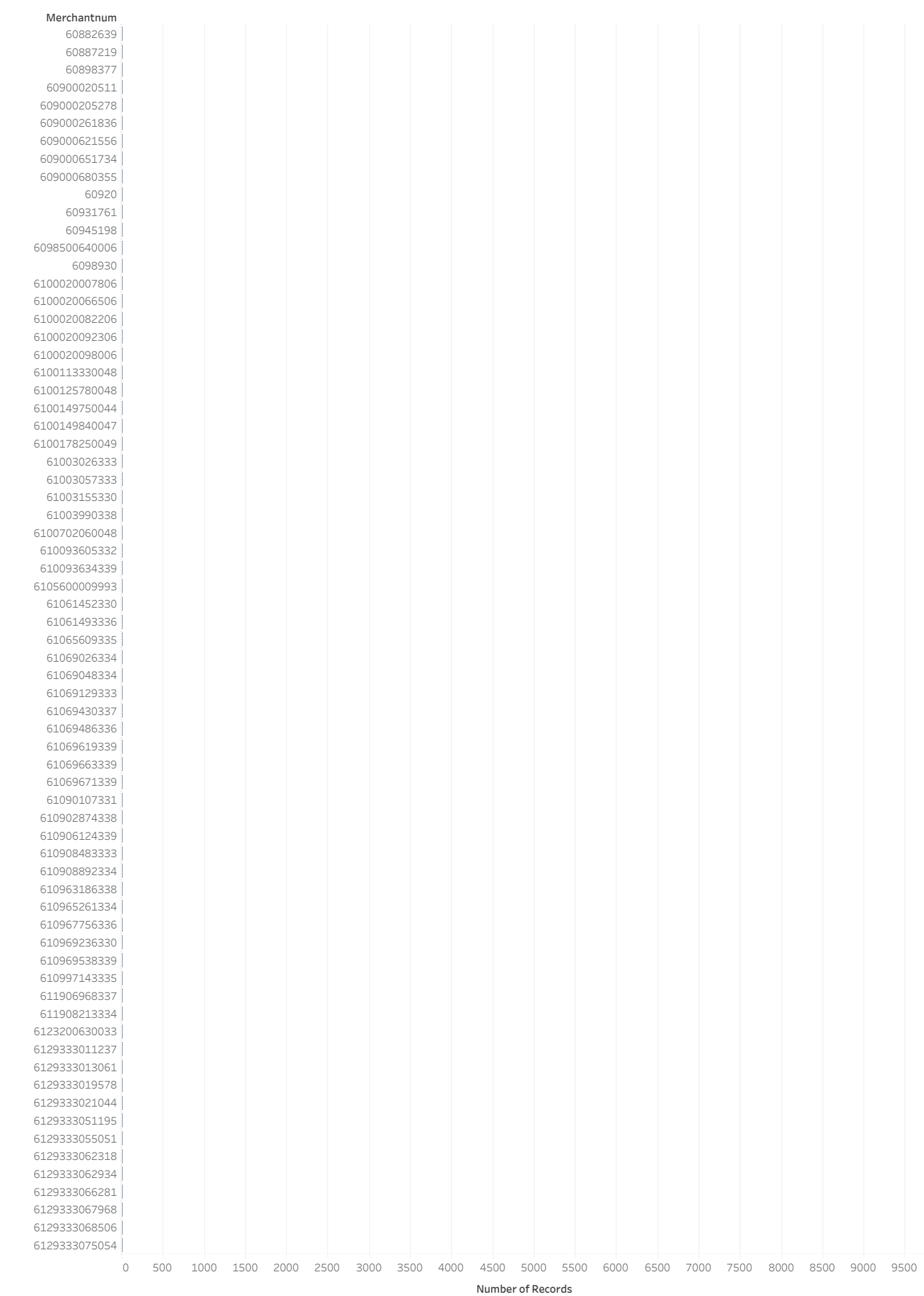
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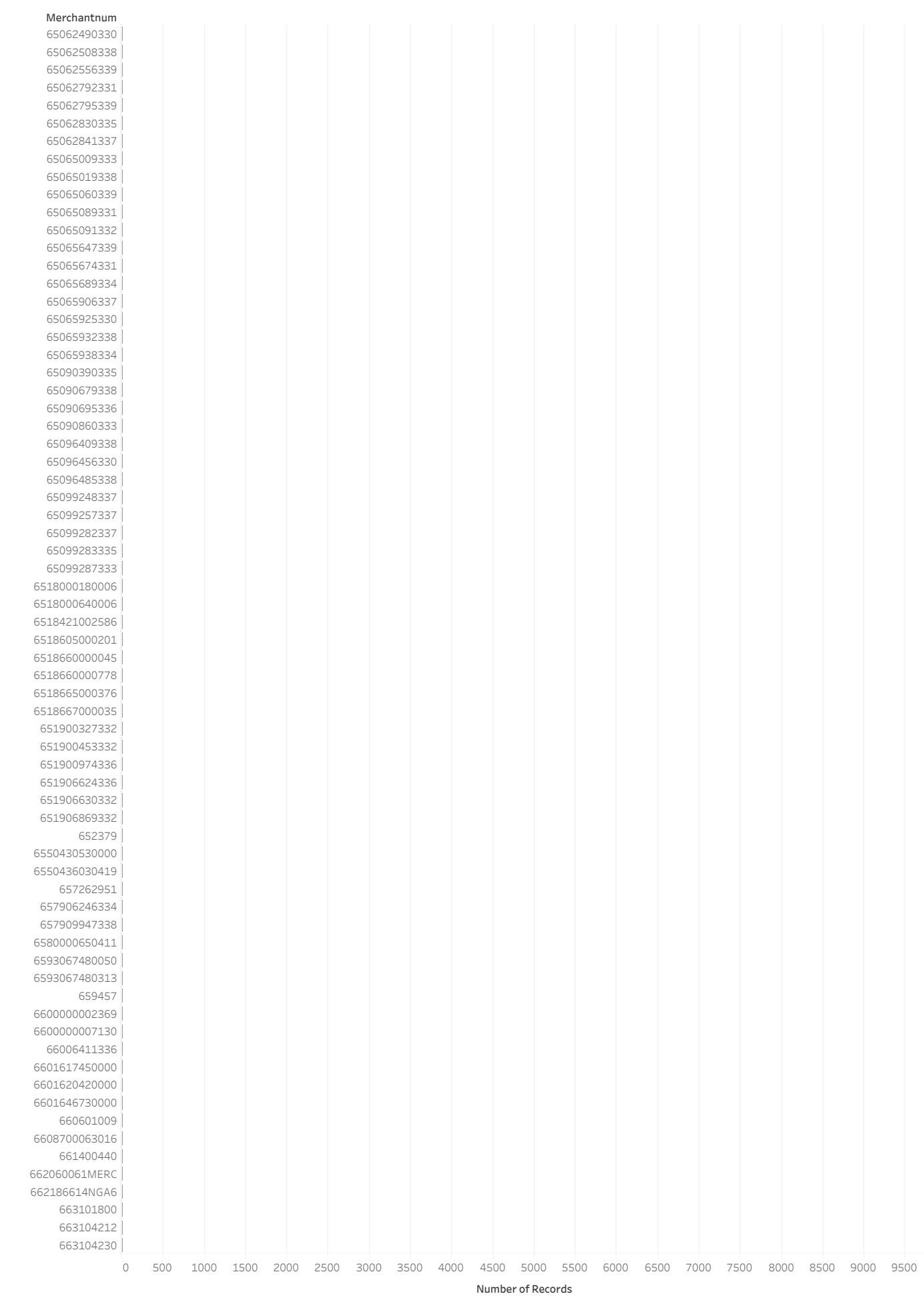
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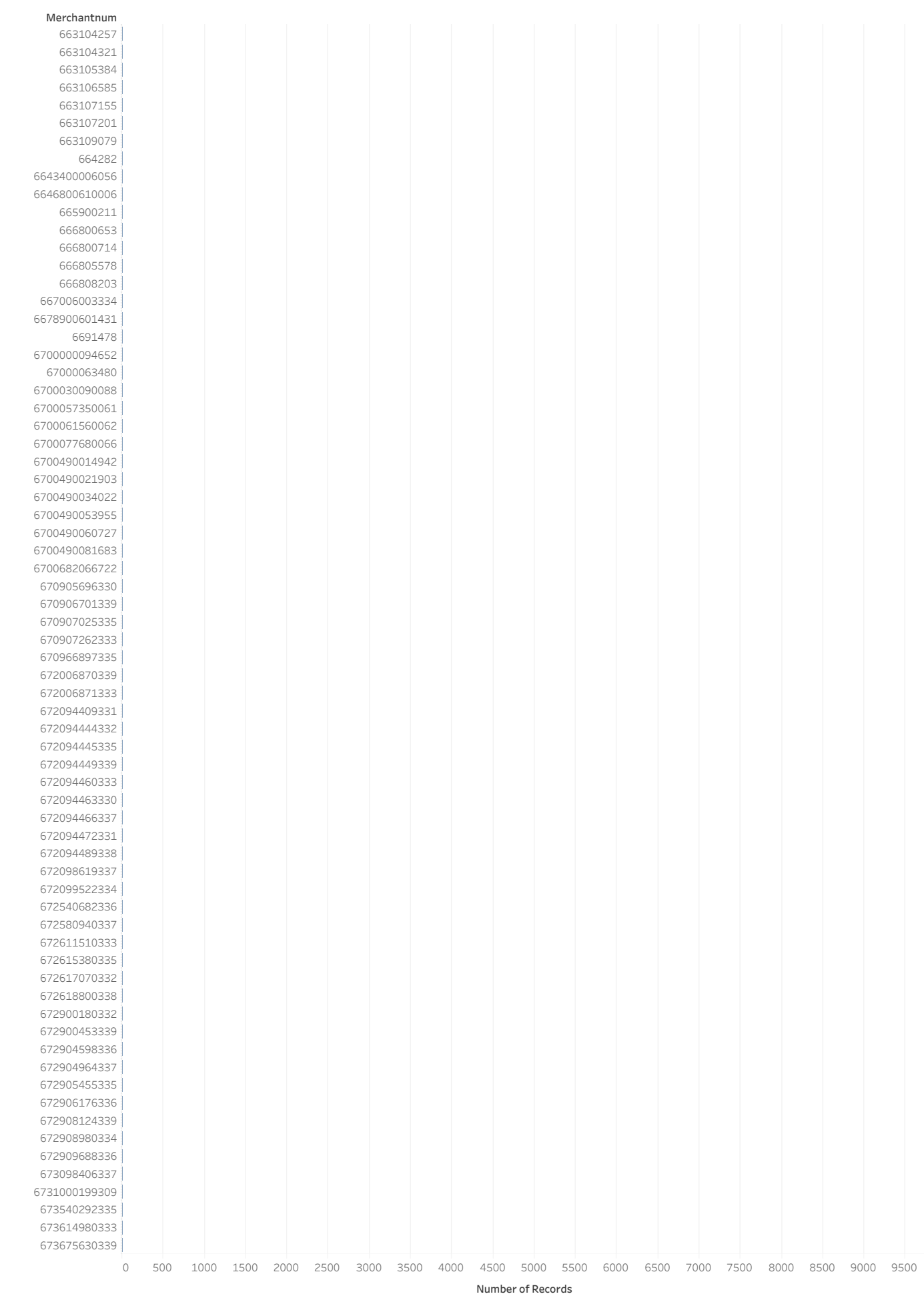
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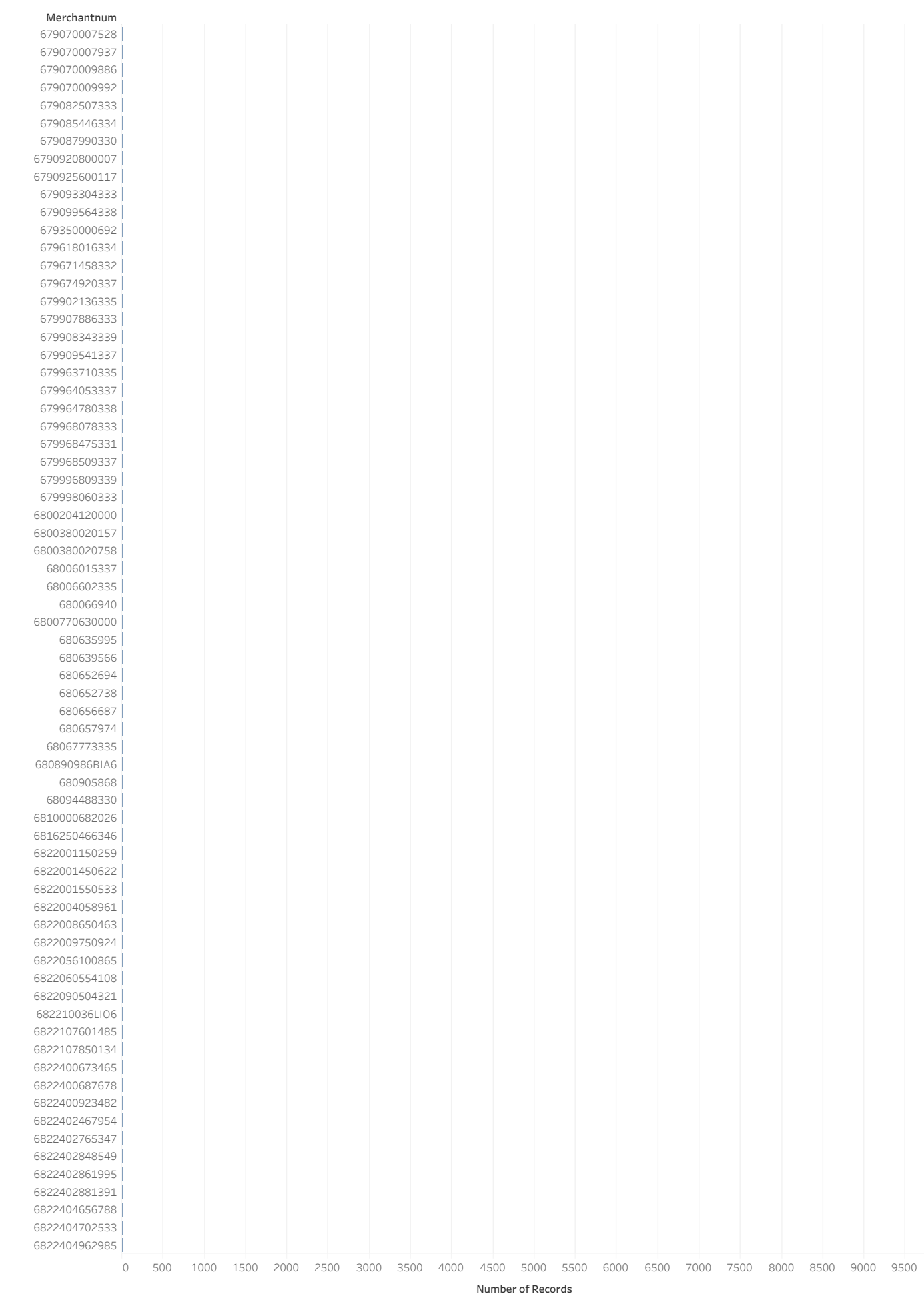
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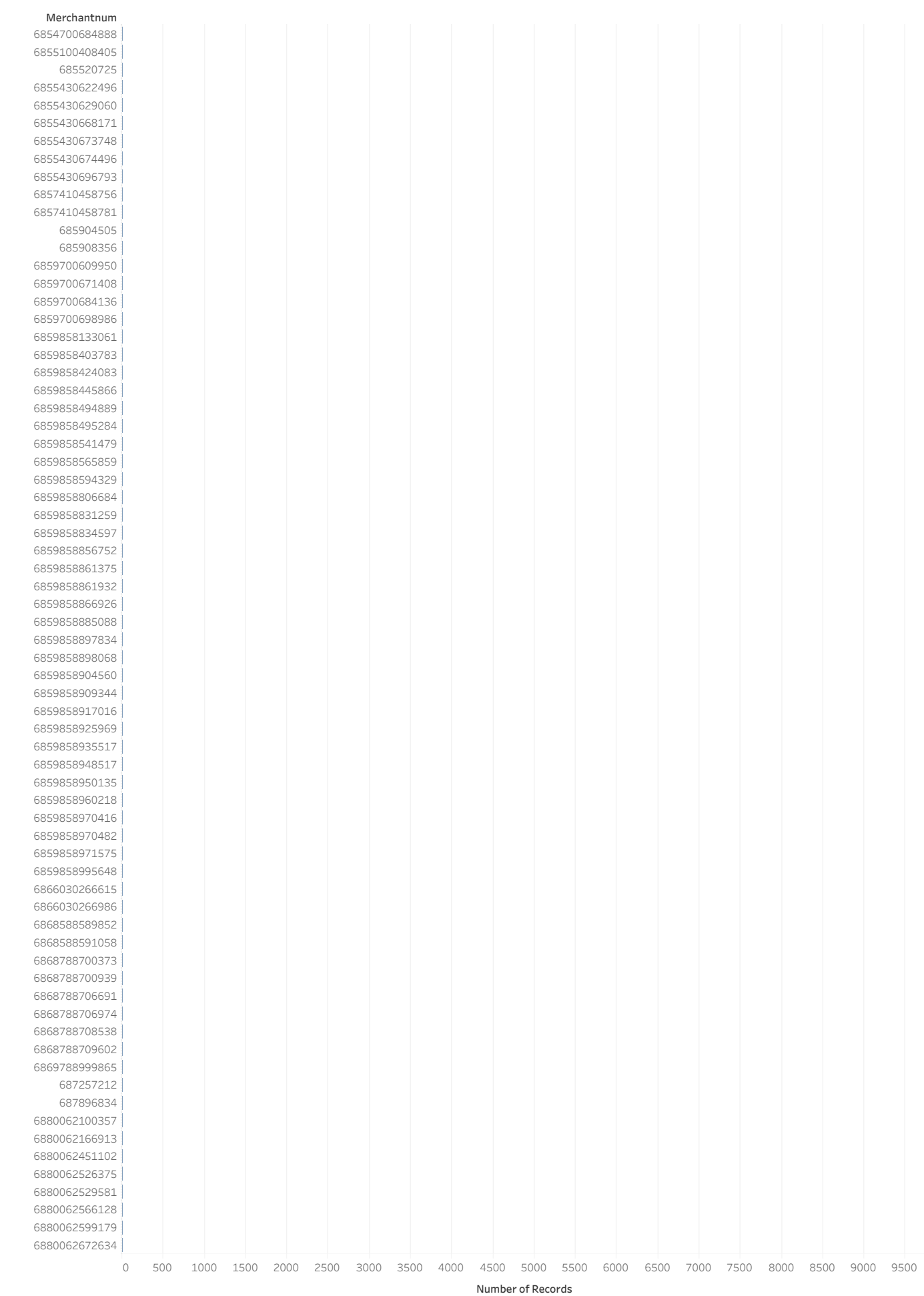
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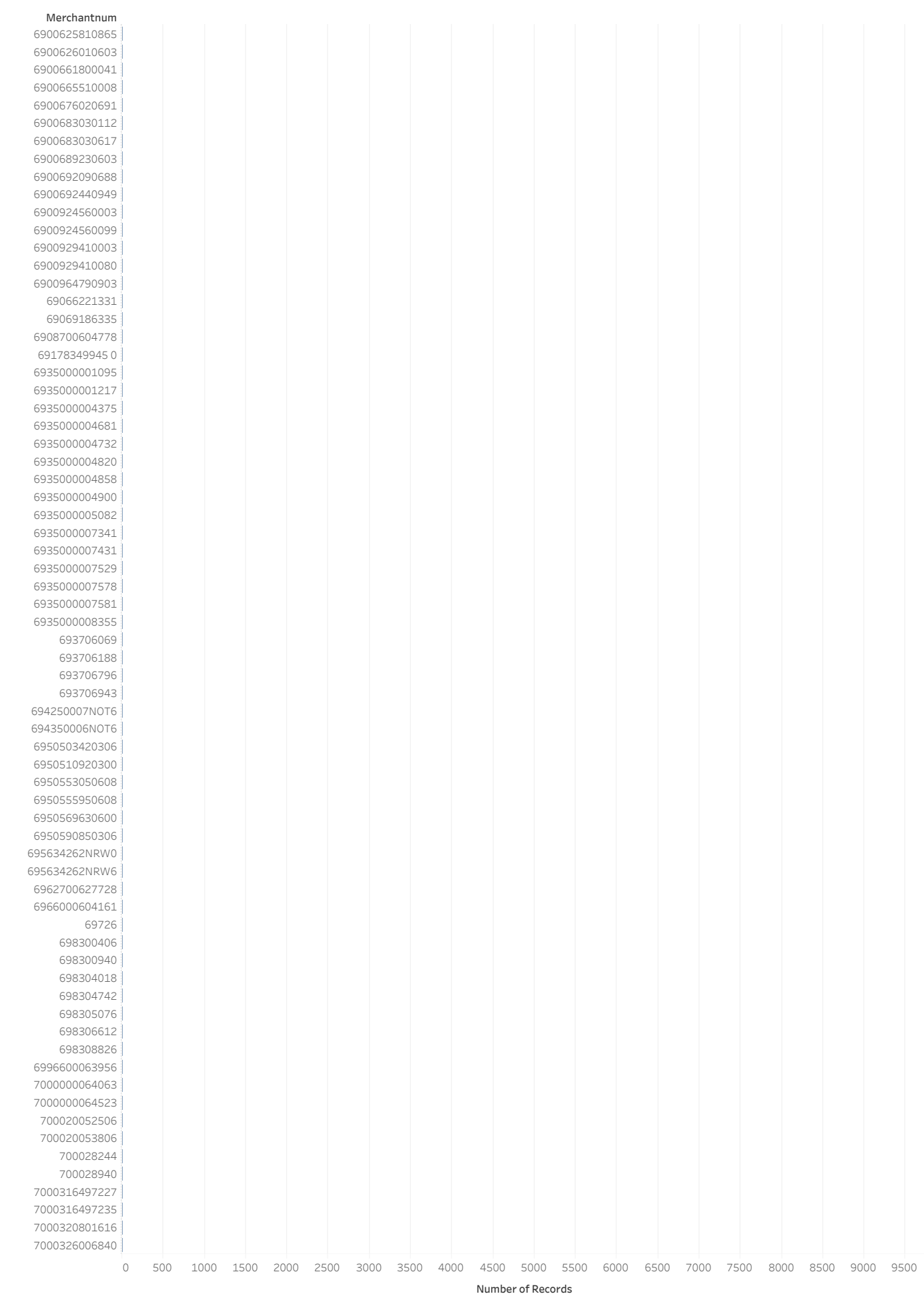
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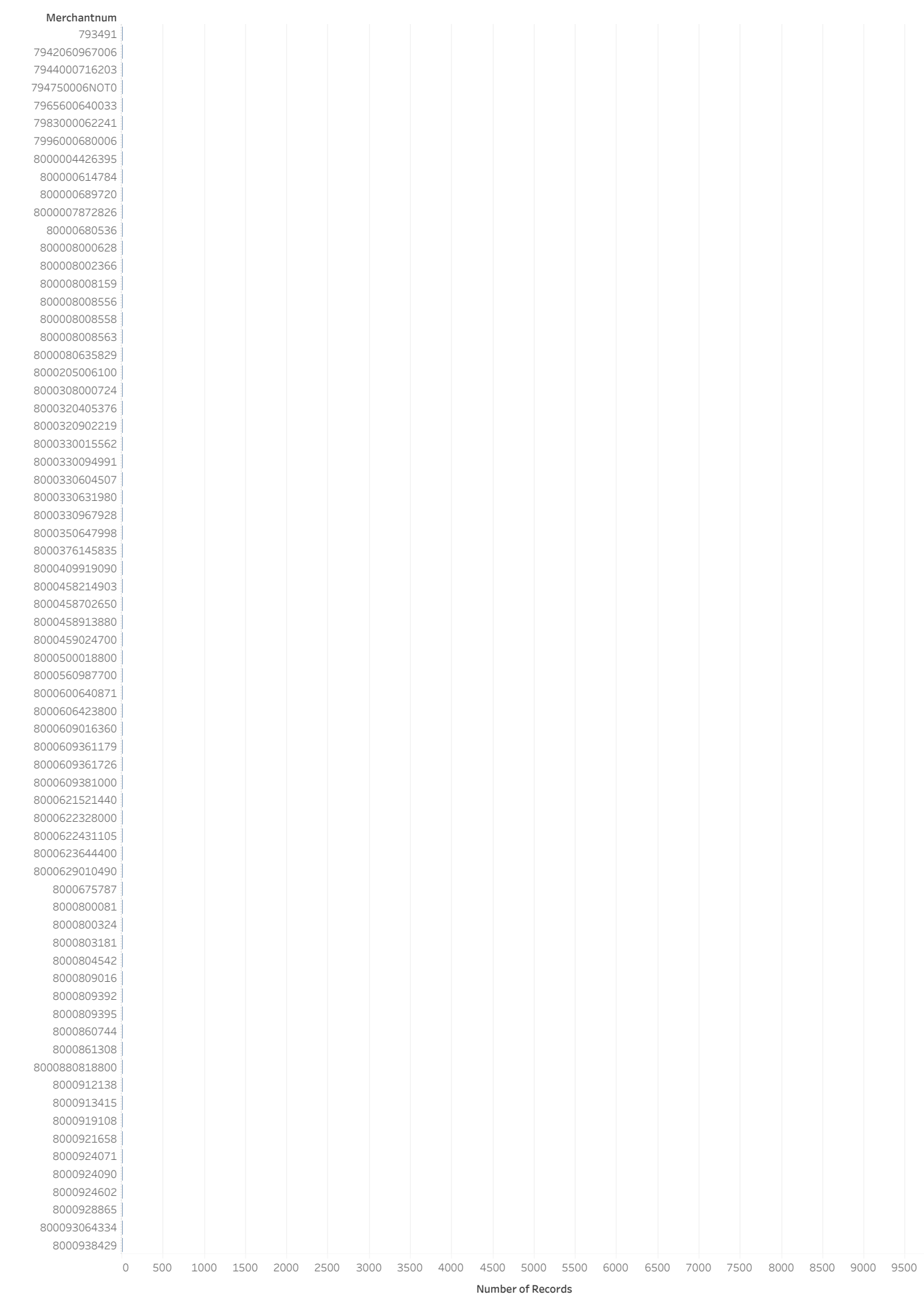
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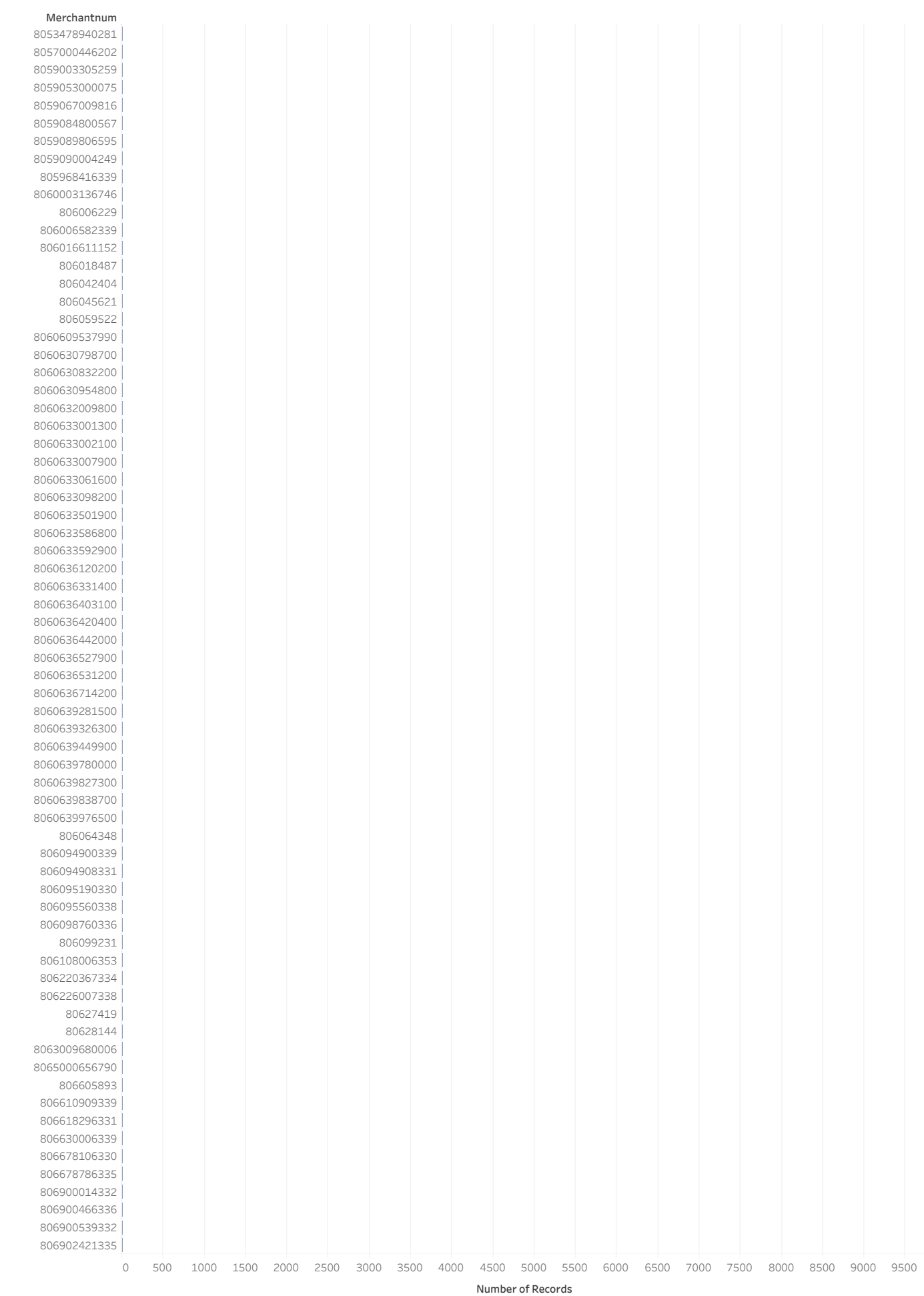
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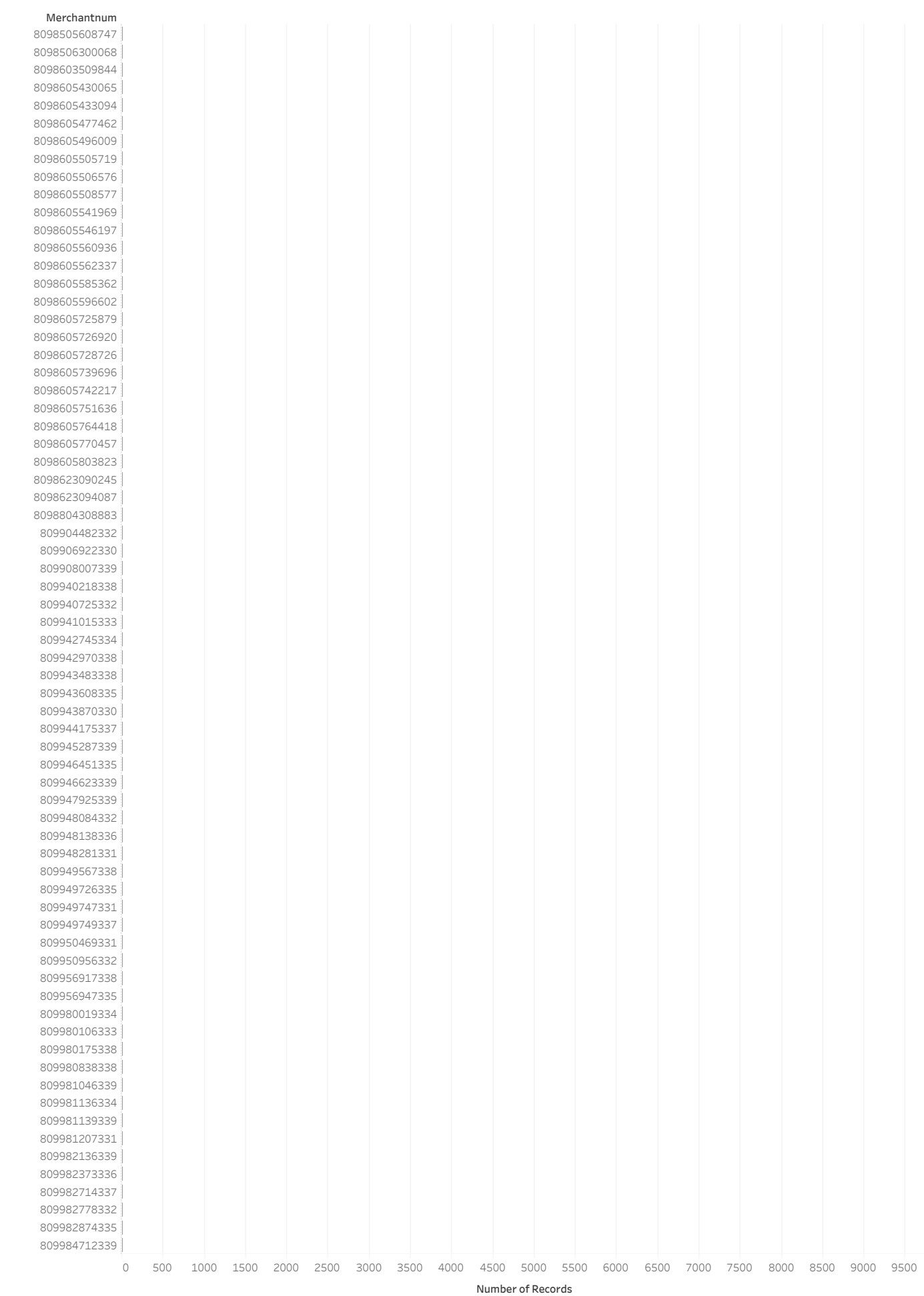
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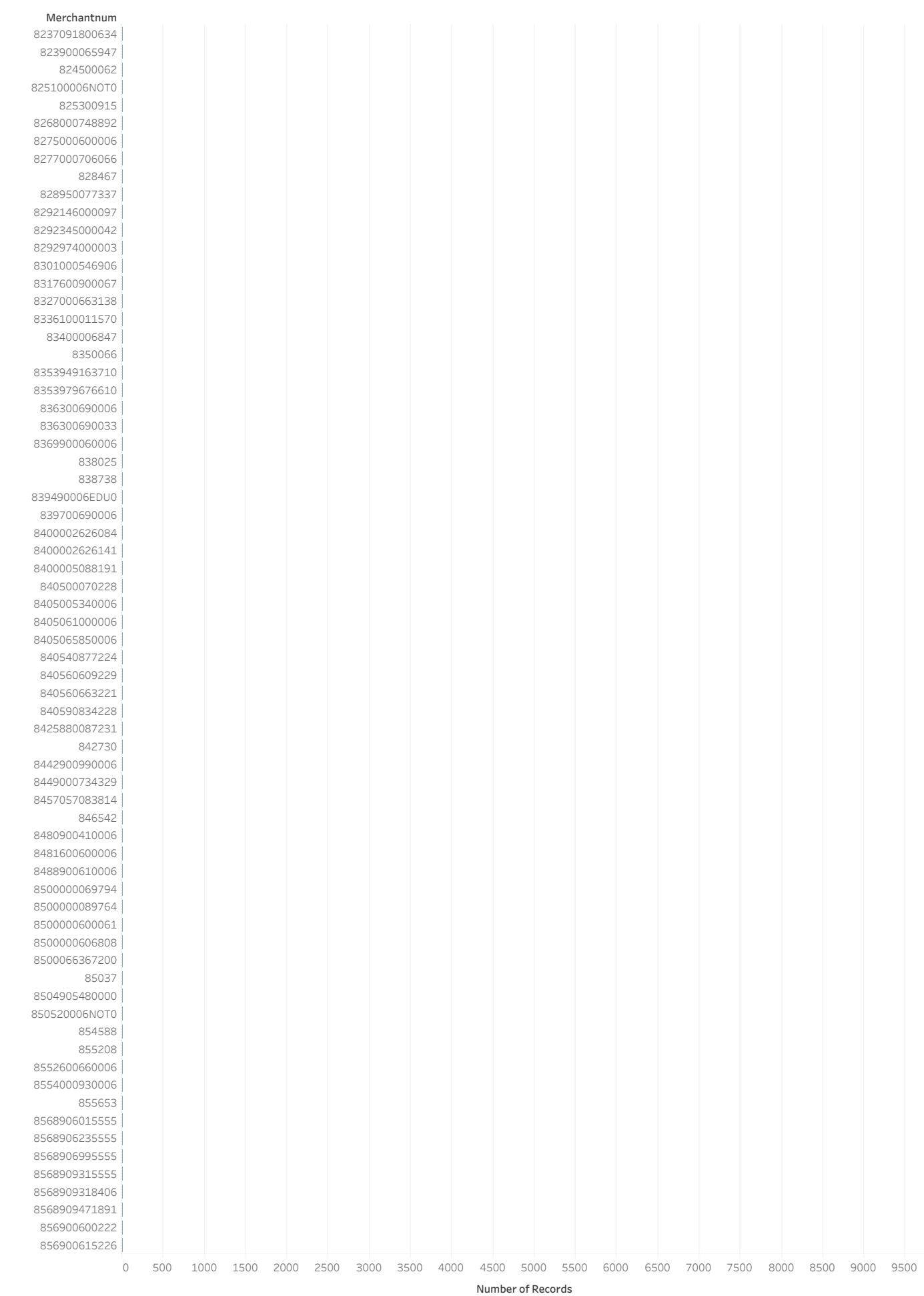
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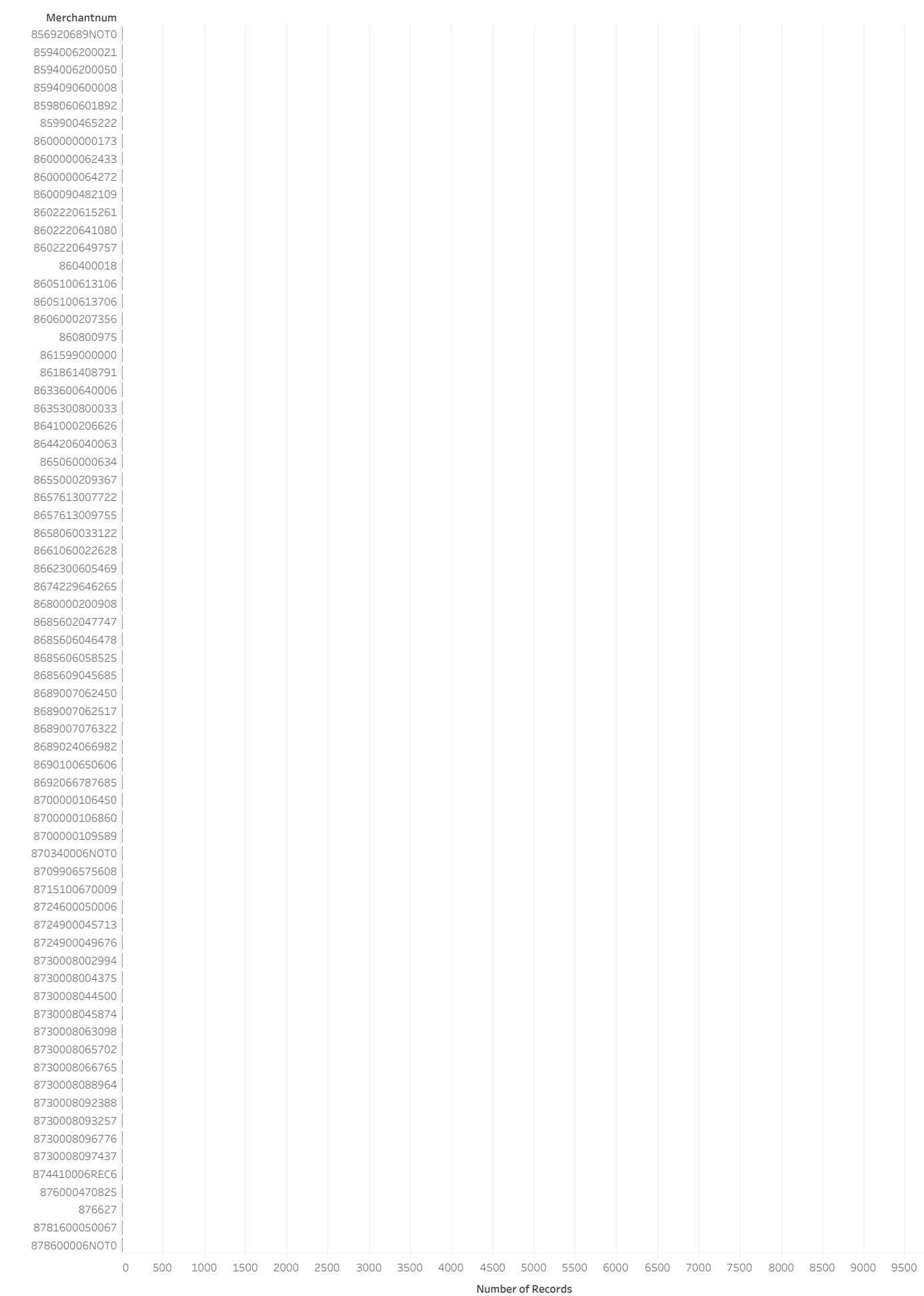
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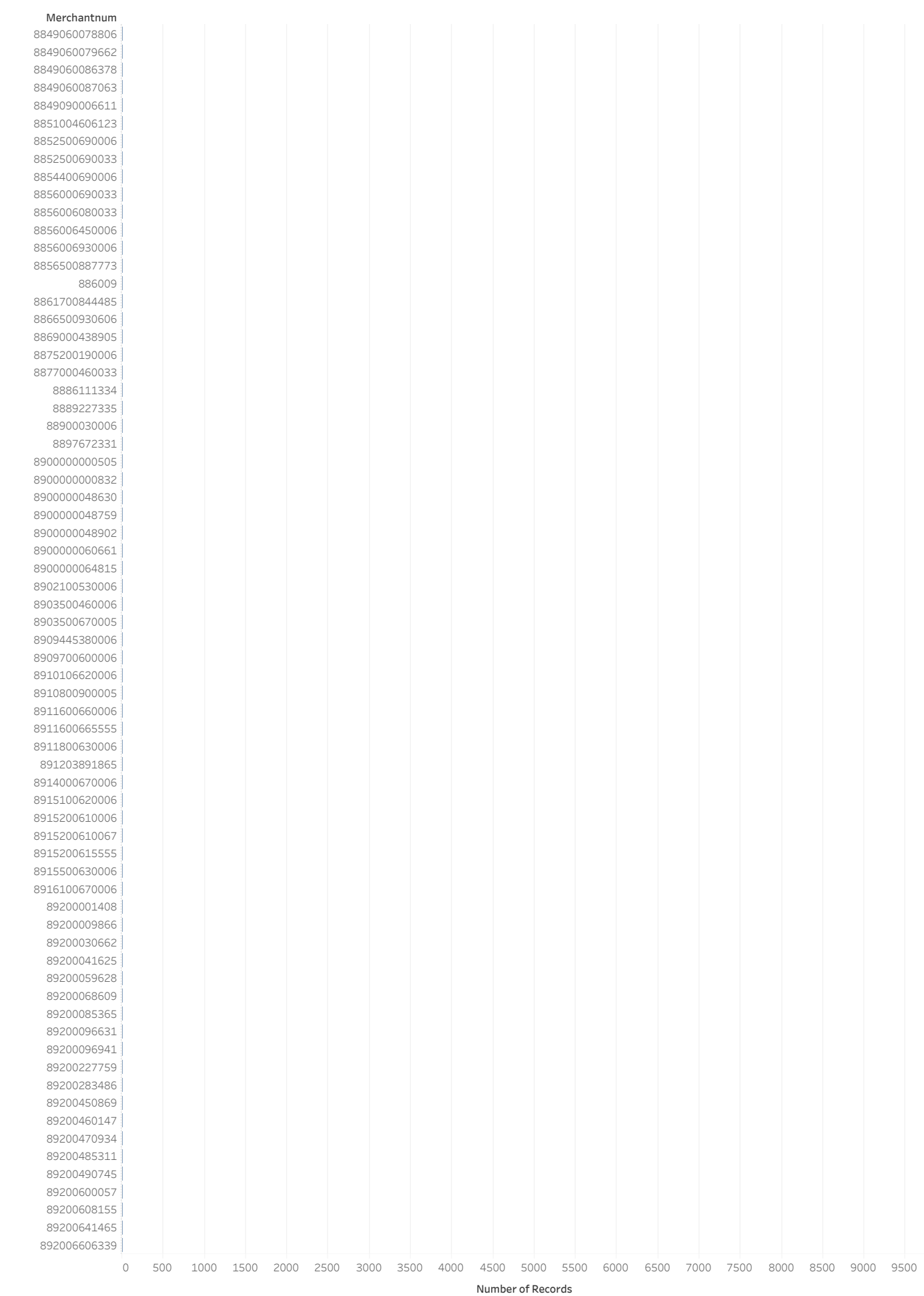
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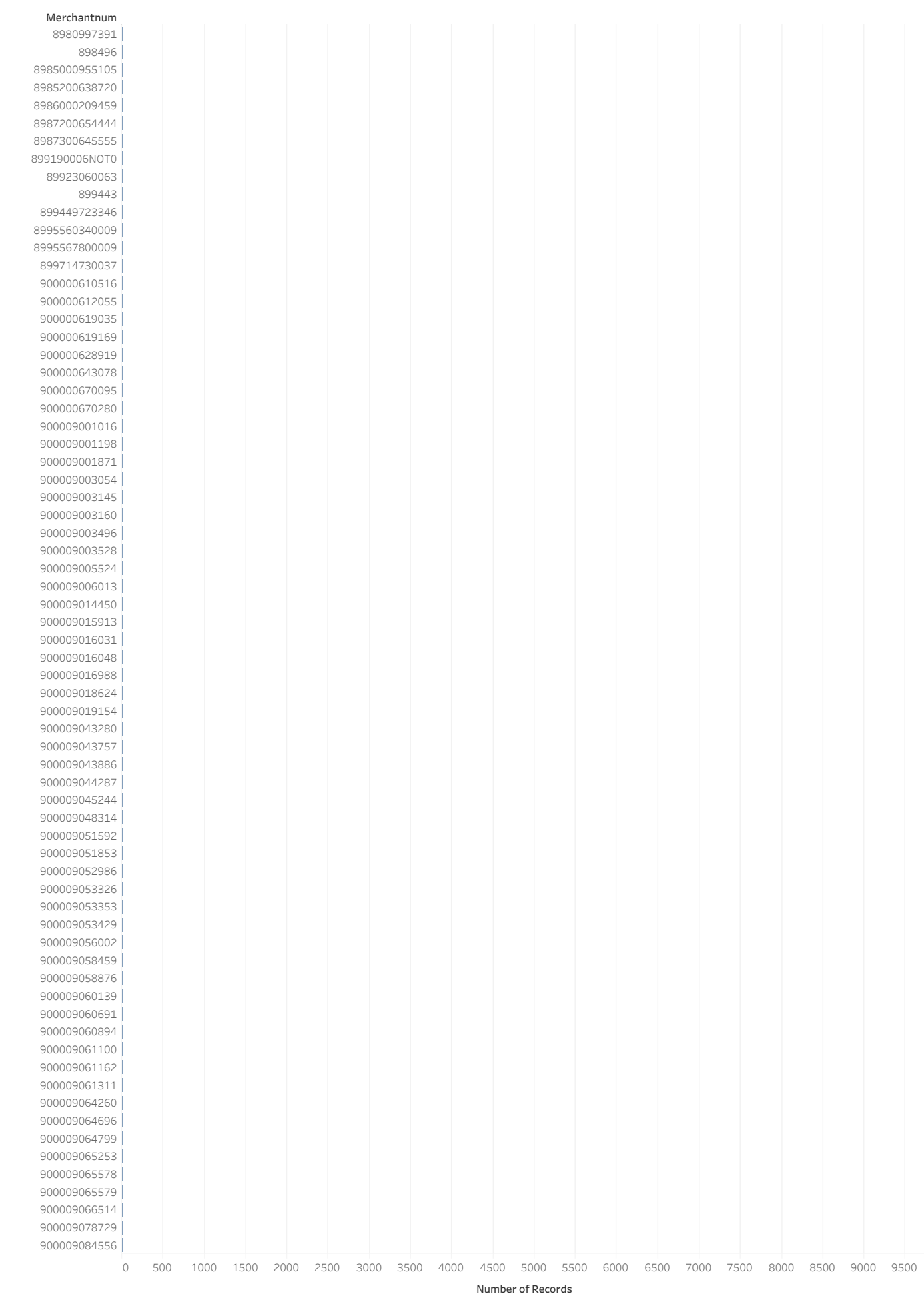
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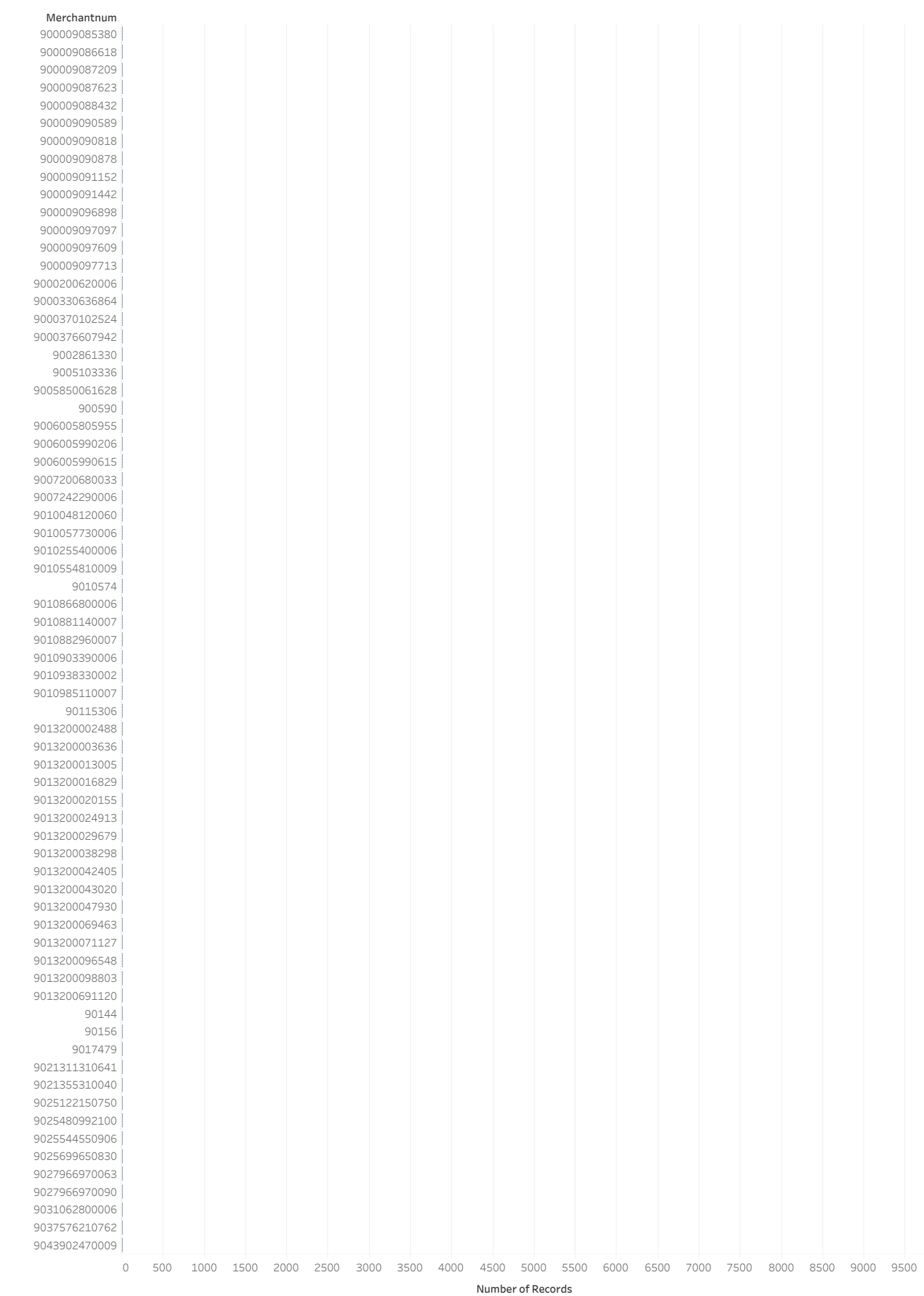
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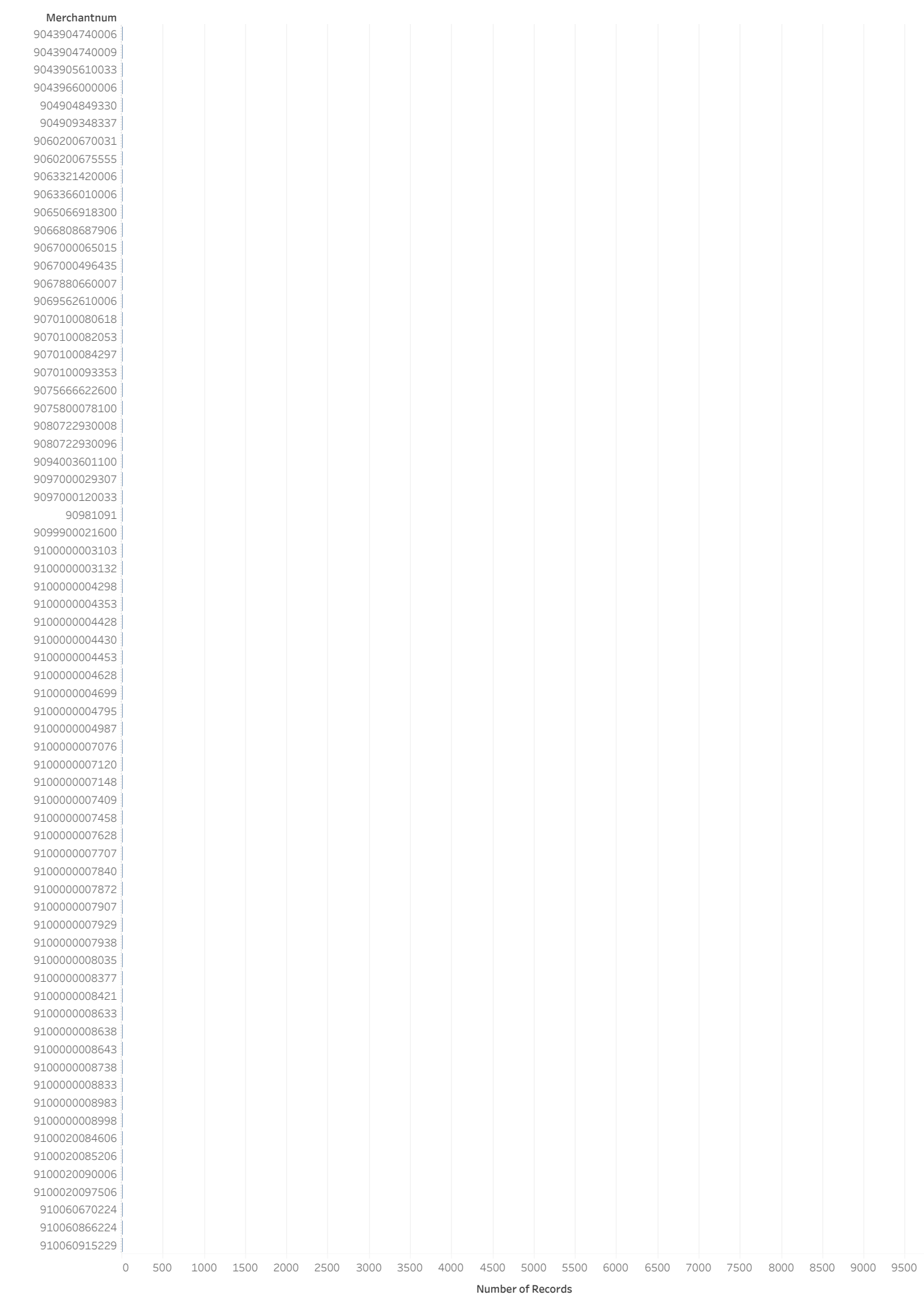
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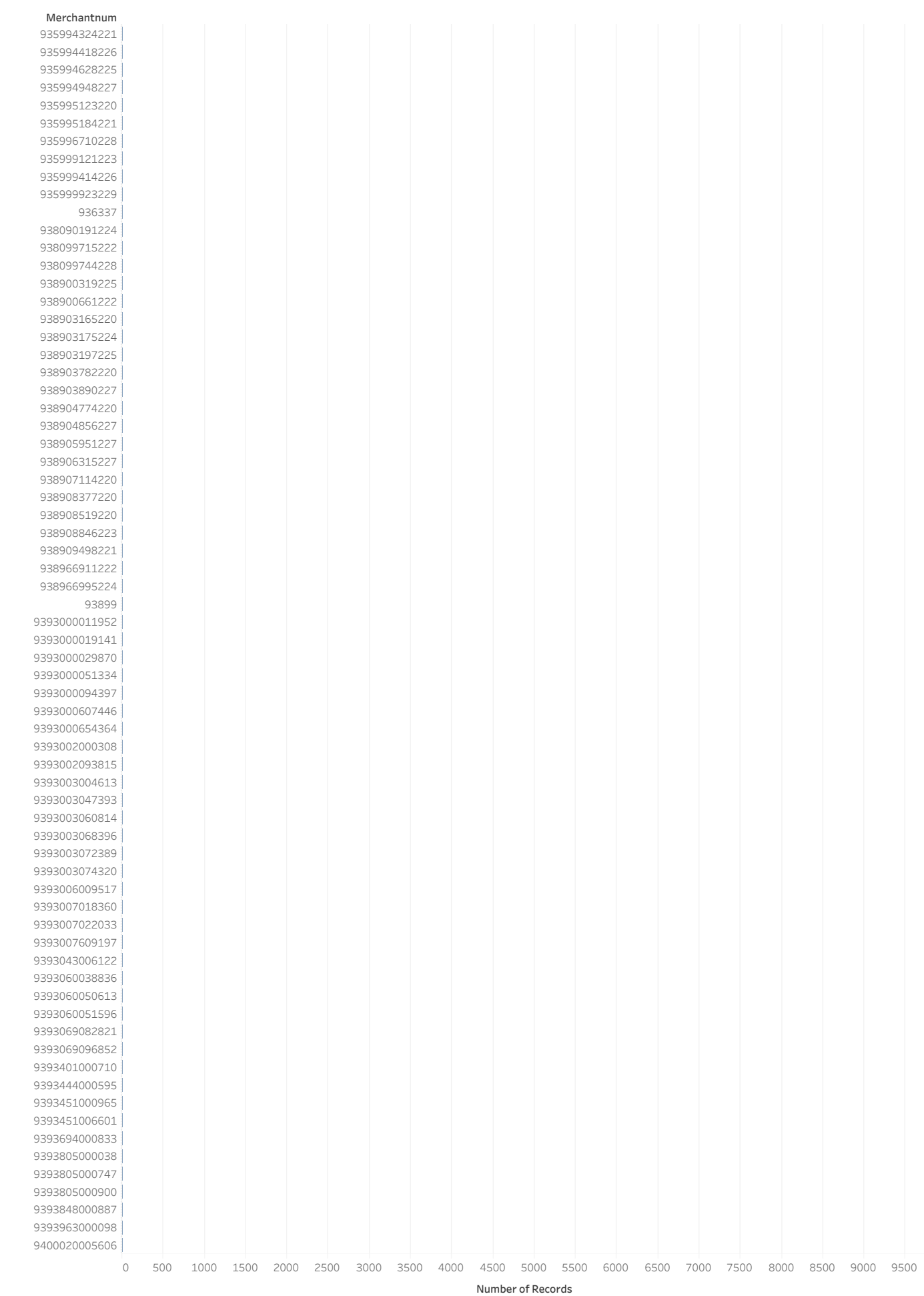
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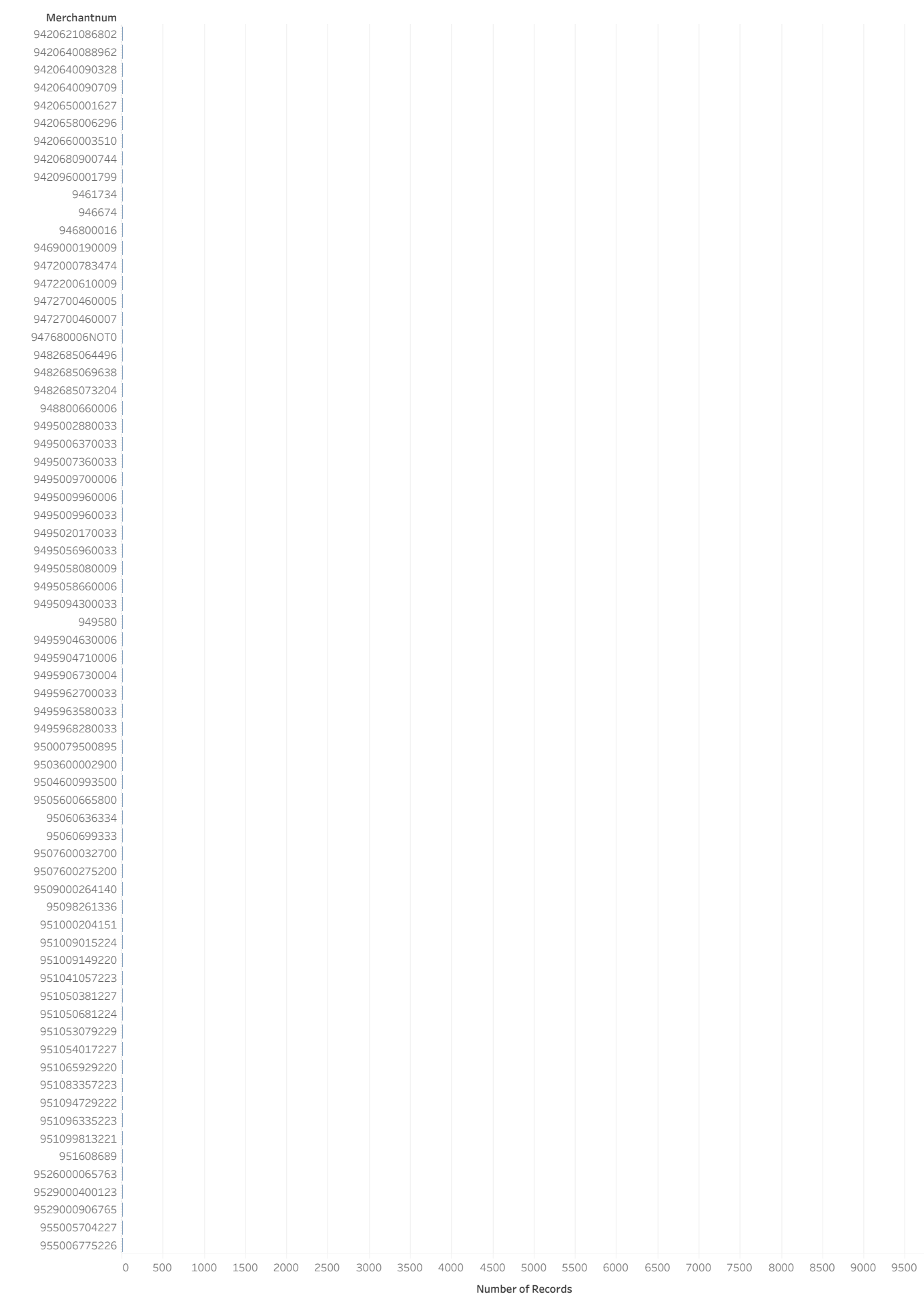
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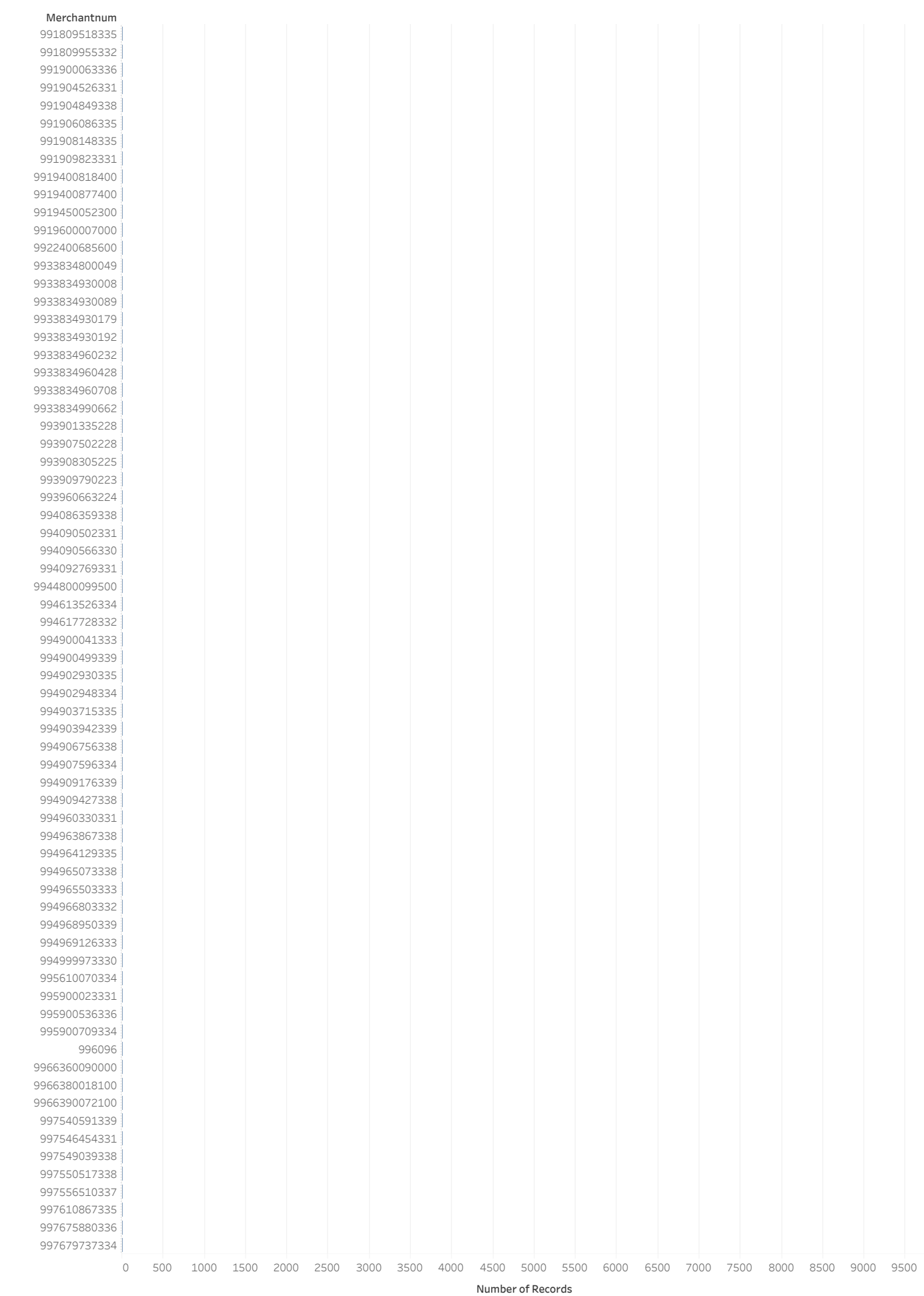
Sum of Number of Records for each Merchantnum. The view is filtered on Merchantnum, which keeps 13,090 of 880 members.

Merchantnum



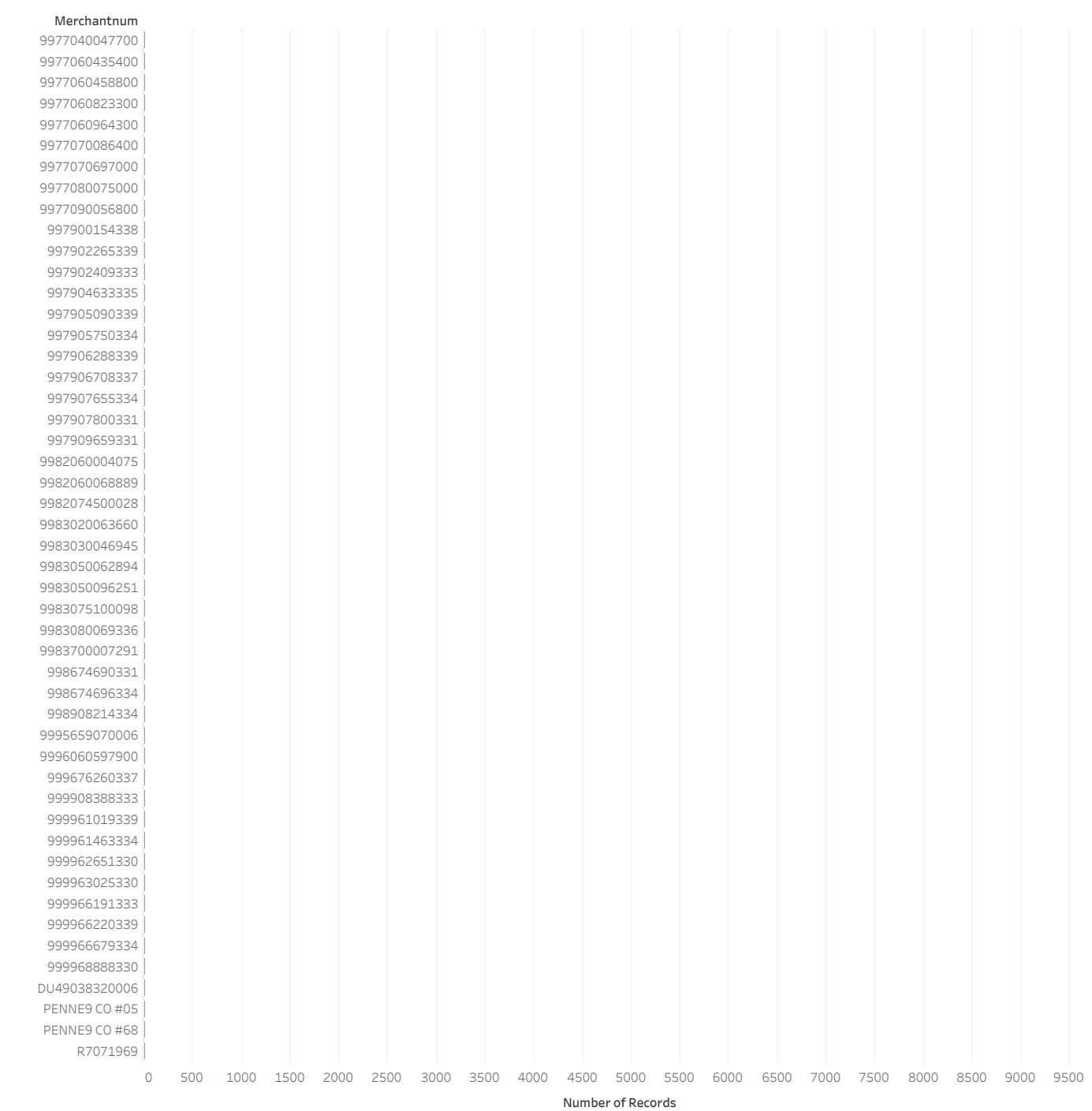
Sum of Number of Records for each Merchantnum. The view is filtered on Merchantnum, which keeps 13,090 of 880 members.

Merchantnum



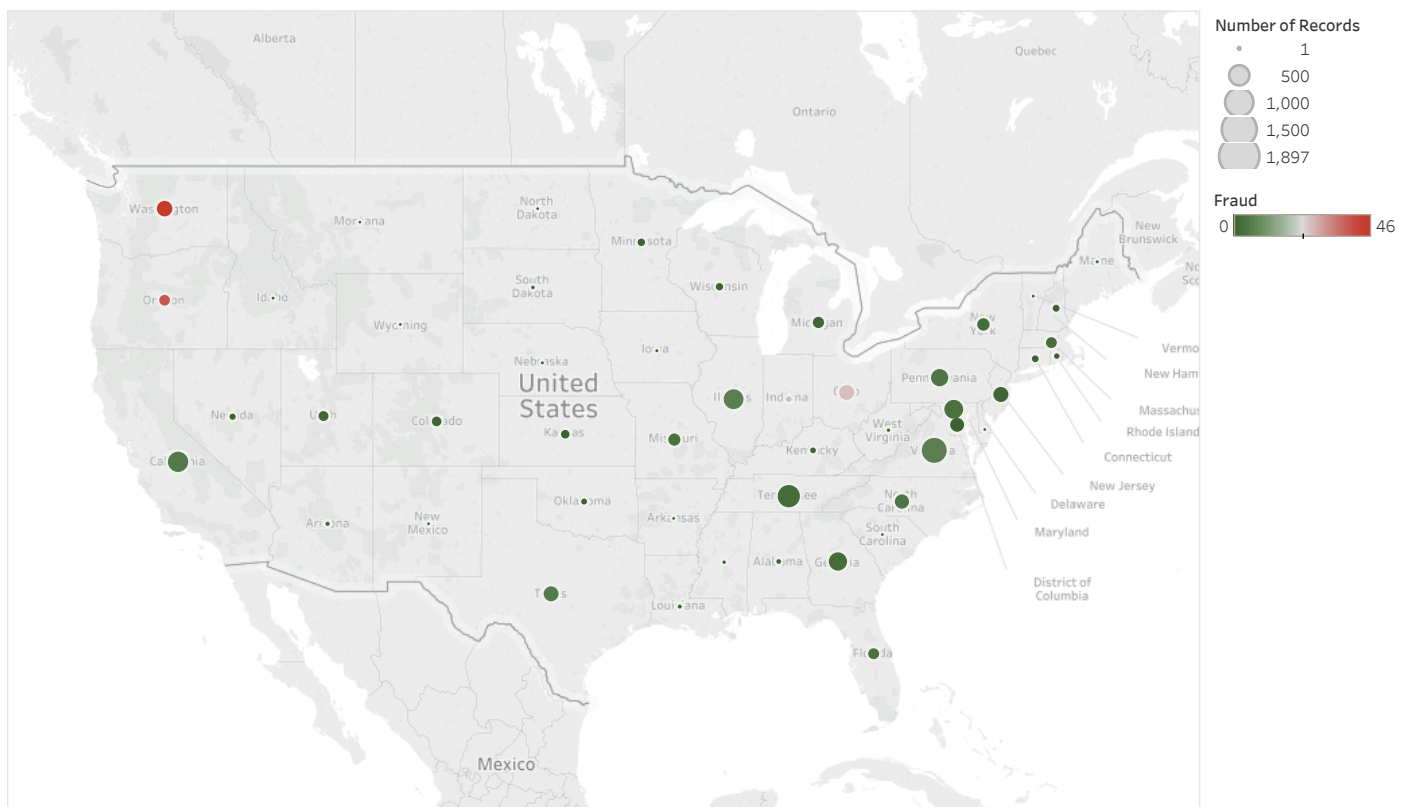
Sum of Number of Records for each Merchantnum. The view is filtered on Merchantnum, which keeps 13,090 of 880 members.

Merchantnum



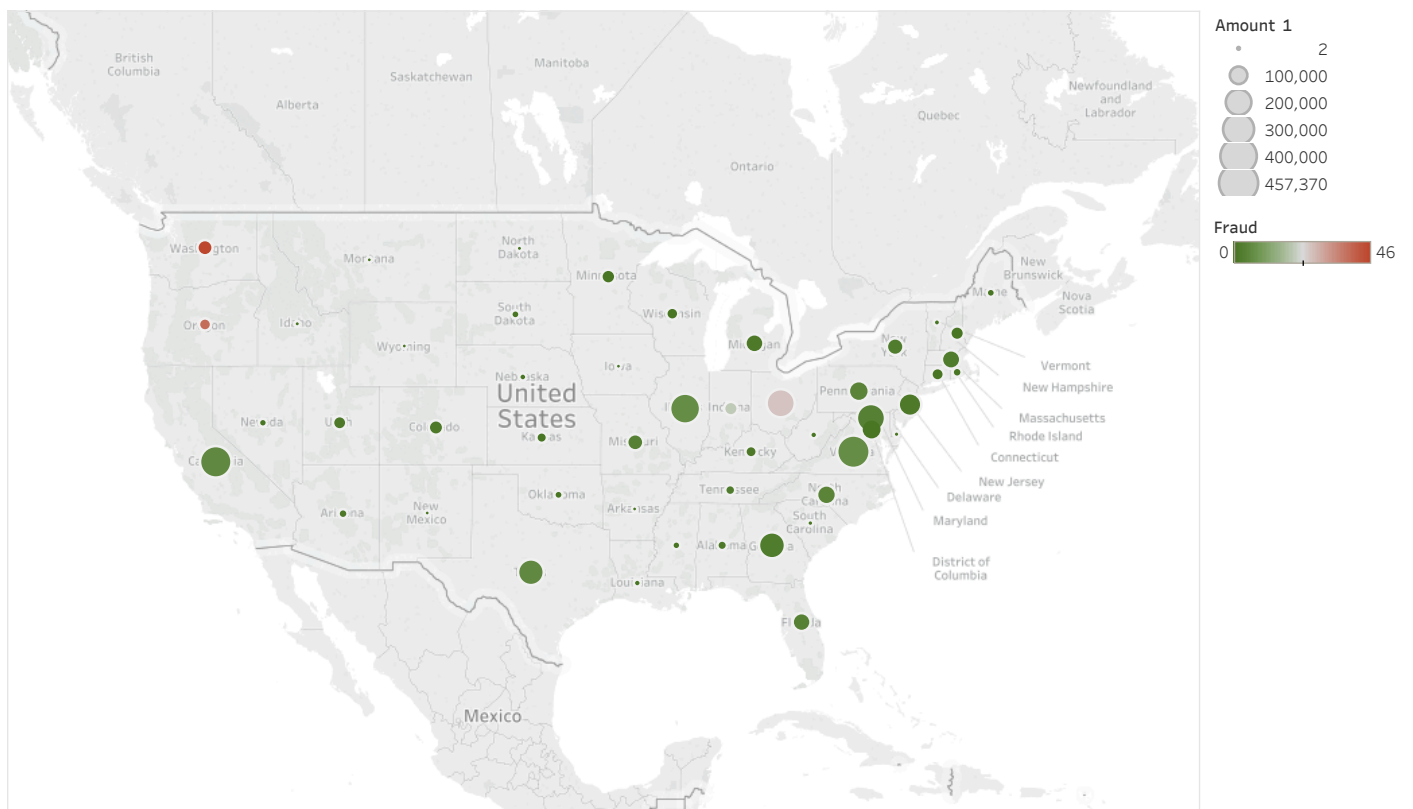
Sum of Number of Records for each Merchantnum. The view is filtered on Merchantnum, which keeps 13,090 of 880 members.

Transaction Counts - Fraud Map - *December*



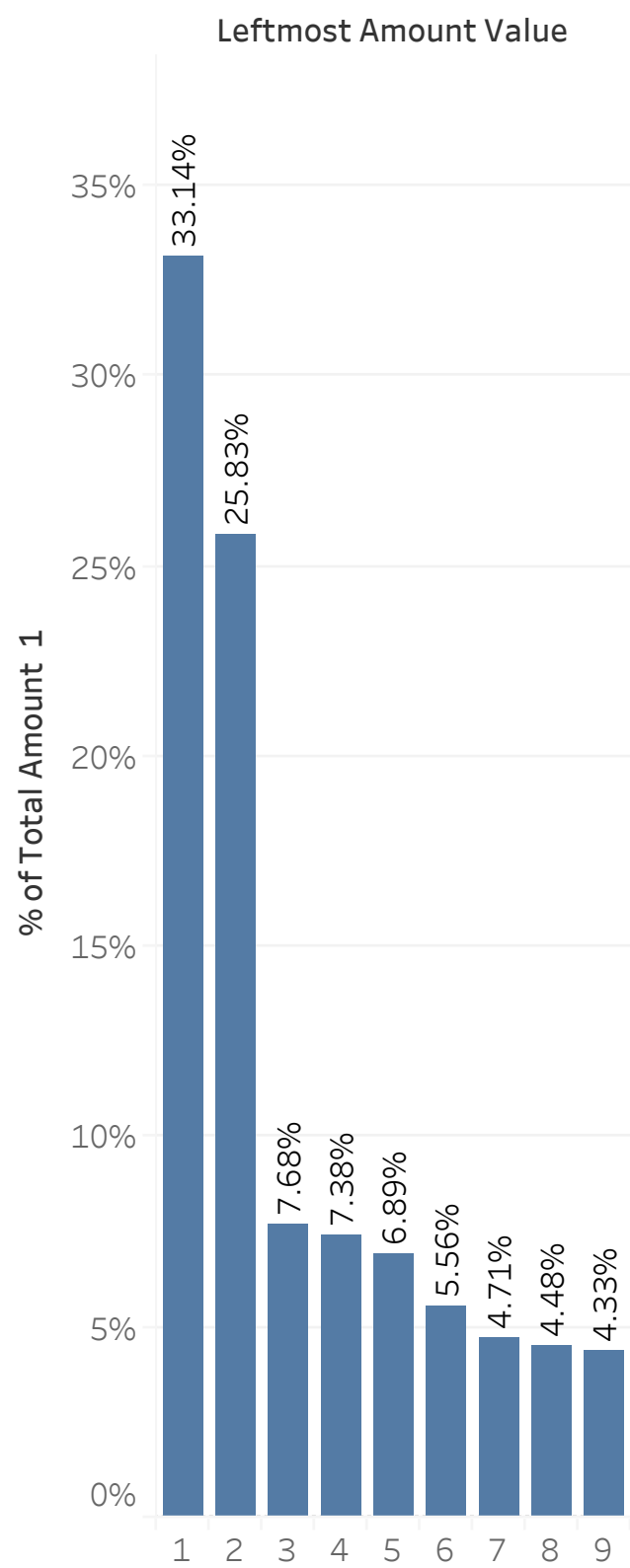
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Fraud. Size shows sum of Number of Records. Details are shown for State.

Transaction Amount - Fraud Map - December



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Fraud. Size shows sum of Amount 1. Details are shown for State.

Benford's Law



% of Total Amount 1 for each Leftmost Amount Value. The data is filtered on sum of Amount 1, which keeps non-Null values only. The view is filtered on Leftmost Amount Value, which excludes 0.