Definition: Total dollar amount of sales minus redemptions. Chart: KPI card / Area chart over time SQL: sql Copy Edit SELECT SUM(dollar\_amount) AS total\_net\_inflows FROM transactions WHERE trade class IN ('Sale', 'Redemption'); DAX: dax Copy Edit Total Net Inflows = SUM('transactions'[dollar\_amount]) **V** KPI 2: Gross Sales Definition: Sum of all sales. Chart: Bar chart by Fund Name / KPI card SQL: sql Copy SELECT SUM(dollar\_amount) AS gross\_sales FROM transactions WHERE trade\_class = 'Sale'; DAX: dax Copy Edit Gross Sales = CALCULATE(SUM('transactions'[dollar amount]), 'transactions'[trade class] = "Sale") KPI 3: Total Redemptions

Chart: Line chart over time

Definition: Total redemption value (negative amounts).

**KPI 1: Total Net Inflows** 

```
SQL:
sql
Copy
Edit
SELECT SUM(dollar_amount) AS total_redemptions
FROM transactions
WHERE trade_class = 'Redemption';
DAX:
dax
Copy
Edit
Total Redemptions = CALCULATE(SUM('transactions'[dollar_amount]),
'transactions'[trade_class] = "Redemption")
KPI 4: Net Flows by Fund
Definition: Sales - Redemptions grouped by fund.
Chart: Stacked bar / Waterfall
SQL:
sql
Copy
Edit
SELECT fund_name, SUM(dollar_amount) AS net_flow
FROM transactions
WHERE trade_class IN ('Sale', 'Redemption')
GROUP BY fund_name;
DAX:
dax
Copy
Edit
Net Flow by Fund = SUM('transactions'[dollar_amount])
KPI 5: Number of Unique Investors
Definition: Count of distinct investor accounts.
Chart: Card or Bar by Office
SQL:
sql
Copy
```

```
Edit
SELECT COUNT(DISTINCT investor_account_number) AS unique_investors
FROM transactions;
DAX:
dax
Copy
Edit
Unique Investors = DISTINCTCOUNT('transactions'[investor_account_number])

✓ KPI 6: Transactions by Trade Class

Definition: Count of each type of trade class.
Chart: Pie / Donut / Clustered column
SQL:
sql
Copy
SELECT trade_class, COUNT(*) AS transaction_count
FROM transactions
GROUP BY trade_class;
DAX:
dax
Copy
Transactions by Class = COUNTROWS('transactions')
KPI 7: Monthly Net Flow
Definition: Total net flow each month.
Chart: Line chart / Area chart
SQL:
sql
Copy
Edit
SELECT DATE_TRUNC('month', trade_date) AS month, SUM(dollar_amount) AS net_flow
FROM transactions
GROUP BY month;
DAX:
dax
```

```
Copy
Edit
Monthly Net Flow =
CALCULATE(
 SUM('transactions'[dollar_amount]),
 DATESINPERIOD('transactions'[trade_date], MAX('transactions'[trade_date]), -1, MONTH)
KPI 8: Top 5 Funds by Net Inflow
Definition: Funds bringing highest net investments.
Chart: Horizontal bar / Column chart
SQL:
sql
Copy
Edit
SELECT fund name, SUM(dollar amount) AS net flow
FROM transactions
GROUP BY fund name
ORDER BY net flow DESC
LIMIT 5;
DAX:
dax
Copy
Net Flow = SUM('transactions'[dollar amount])
KPI 9: Sales Rep Performance
Definition: Total net sales per rep.
Chart: Horizontal bar
SQL:
sql
Copy
Edit
SELECT sales_representative, SUM(dollar_amount) AS total_sales
FROM transactions
GROUP BY sales representative;
DAX:
dax
```

```
Copy
Edit
Rep Sales = SUM('transactions'[dollar amount])
KPI 10: Average Transaction Value
Definition: Avg dollar value per transaction.
Chart: KPI Card
SQL:
sql
Copy
Edit
SELECT AVG(dollar_amount) AS avg_txn_value
FROM transactions;
DAX:
dax
Copy
Edit
Avg Txn Value = AVERAGE('transactions'[dollar amount])
KPI 11: Redemption Rate
Definition: Redemptions as % of total.
Chart: Gauge or Donut
SQL:
sql
Copy
Edit
SELECT
 SUM(CASE WHEN trade_class = 'Redemption' THEN 1 ELSE 0 END) * 100.0 / COUNT(*) AS
redemption_rate
FROM transactions;
DAX:
dax
Copy
Edit
Redemption Rate =
DIVIDE(
 CALCULATE(COUNTROWS('transactions'), 'transactions'[trade_class] = "Redemption"),
 COUNTROWS('transactions'),
```

```
0

✓ KPI 12: Daily Transaction Volume

Definition: Number of transactions per day.
Chart: Line chart
SQL:
sql
Copy
Edit
SELECT trade_date, COUNT(*) AS txn_count
FROM transactions
GROUP BY trade date;
DAX:
dax
Copy
Edit
Daily Volume = COUNTROWS('transactions')
KPI 13: Fund Diversification (Top 10 funds % of total)
Definition: How much top funds dominate flow.
Chart: Pie / Donut
SQL:
sql
Copy
Edit
SELECT fund_name, SUM(dollar_amount) AS fund_flow
FROM transactions
GROUP BY fund name
ORDER BY fund_flow DESC
LIMIT 10;
DAX:
dax
Copy
Edit
Fund Flow = SUM('transactions'[dollar_amount])
KPI 14: Investor Retention
Definition: % of repeat investors (present in multiple months).
```

```
Chart: Line or KPI Card
SQL:
sql
Copy
Edit
WITH txn_months AS (
 SELECT investor account number, DATE TRUNC('month', trade date) AS txn month
 FROM transactions
 GROUP BY investor_account_number, txn_month
SELECT COUNT(*) AS repeat_investors
FROM (
SELECT investor_account_number
 FROM txn_months
 GROUP BY investor account number
 HAVING COUNT(*) > 1
) AS repeated;
DAX:
Use Power BI visuals with filters + DAX COUNTROWS and DISTINCTCOUNT on
investor-account grouped by month.
KPI 15: Average Holding Duration
Definition: Avg time between sale and redemption.
Chart: Histogram / Line
SQL:
Complex – requires joining sale/redemption by account+fund. Can be added if needed.
I'll now continue with KPI 16 to 25 in the next message. Want me to proceed?
You said:
yes
```

ChatGPT said:

Great! Let's complete the remaining KPI 16 to KPI 25 for your Power BI Mutual Fund Dashboard, with SQL, DAX, definitions, and suggested chart types.

KPI 16: Investor Growth Rate (Monthly)

Definition: % change in number of unique investors month-over-month.

Chart: Line chart with % growth SQL: sql Copy Edit WITH monthly\_investors AS ( SELECT DATE TRUNC('month', trade date) AS month, COUNT(DISTINCT investor account number) AS investor count FROM transactions **GROUP BY month** SELECT month, investor count, (investor count - LAG(investor count) OVER (ORDER BY month)) \* 100.0 / LAG(investor\_count) OVER (ORDER BY month) AS investor\_growth\_rate FROM monthly investors; DAX: dax Copy Edit Investor Count = DISTINCTCOUNT('transactions'[investor account number]) Investor Growth Rate = DIVIDE( [Investor Count] - CALCULATE([Investor Count], DATEADD('transactions'[trade date], -1, MONTH)), CALCULATE([Investor Count], DATEADD('transactions'[trade\_date], -1, MONTH)) KPI 17: Office-wise Net Flow Definition: Net inflow by office location.

Chart: Bar / Map visual

```
SQL:
sql
Copy
Edit
SELECT office, SUM(dollar_amount) AS net_flow
FROM transactions
GROUP BY office;
DAX:
dax
Copy
Edit
Office Net Flow = SUM('transactions'[dollar_amount])
KPI 18: Sales Conversion Rate
Definition: % of Sale transactions over all.
Chart: Gauge / Pie
SQL:
sql
Copy
Edit
SELECT
 SUM(CASE WHEN trade_class = 'Sale' THEN 1 ELSE 0 END) * 100.0 / COUNT(*) AS
sales_conversion_rate
FROM transactions;
DAX:
dax
Copy
Edit
Sales Conversion Rate =
DIVIDE(
 CALCULATE(COUNTROWS('transactions'), 'transactions'[trade_class] = "Sale"),
 COUNTROWS('transactions')
KPI 19: Trade Volume by NSCC Number
Definition: Number of trades routed through each NSCC.
Chart: Column chart
SQL:
```

```
sql
Copy
Edit
SELECT nscc_number, COUNT(*) AS txn_count
FROM transactions
GROUP BY nscc_number;
DAX:
dax
Copy
Edit
NSCC Trade Volume = COUNTROWS('transactions')
KPI 20: Peak Investment Day
Definition: The date with highest net inflow.
Chart: Single Value / Table
SQL:
sql
Copy
SELECT trade_date, SUM(dollar_amount) AS net_inflow
FROM transactions
GROUP BY trade date
ORDER BY net_inflow DESC
LIMIT 1;
DAX:
Create a measure:
dax
Copy
Edit
Daily Net Flow = SUM('transactions'[dollar_amount])
Use MAXX over ADDCOLUMNS filtered by 'Daily Net Flow'
KPI 21: Investor Concentration Index
Definition: % of net inflows from top 5% investors.
Chart: KPI Card
```

SQL:

Complex percentile logic needed. Can be implemented via CTE ranking by total dollar amount and taking top N.

## DAX:

FROM transactions

Use RANKX to calculate investor rankings and calculate top 5% inflow contribution.

```
KPI 22: Redemption-to-Sales Ratio
Definition: Ratio of redemptions to sales.
Chart: Gauge or KPI Card
SQL:
sql
Copy
Edit
SELECT
 SUM(CASE WHEN trade class = 'Redemption' THEN dollar amount ELSE 0 END) /
 NULLIF(SUM(CASE WHEN trade_class = 'Sale' THEN dollar_amount ELSE 0 END), 0) AS
redemption sales ratio
FROM transactions;
DAX:
dax
Copy
Edit
Redemption Sales Ratio =
DIVIDE(
 CALCULATE(SUM('transactions'[dollar_amount]), 'transactions'[trade_class] = "Redemption"),
 CALCULATE(SUM('transactions'[dollar_amount]), 'transactions'[trade_class] = "Sale")
KPI 23: Month-over-Month Net Flow Change
Definition: % change in net flow compared to previous month.
Chart: Line chart with labels
SQL:
sql
Copy
Edit
WITH monthly_flow AS (
```

SELECT DATE TRUNC('month', trade date) AS month, SUM(dollar amount) AS net flow

```
GROUP BY month
)
SELECT month,
   net flow,
   (net flow - LAG(net flow) OVER (ORDER BY month)) * 100.0 /
   LAG(net flow) OVER (ORDER BY month) AS mom change
FROM monthly flow;
DAX:
dax
Copy
Edit
MoM Net Flow Change =
DIVIDE(
 [Monthly Net Flow] - CALCULATE([Monthly Net Flow], DATEADD('transactions'[trade date],
-1, MONTH)),
 CALCULATE([Monthly Net Flow], DATEADD('transactions'[trade_date], -1, MONTH))
KPI 24: Dormant Investors (No transactions in 3+ months)
Definition: Count of investors inactive for last 3 months.
Chart: KPI / Table
SQL:
sql
Copy
Edit
SELECT COUNT(*) AS dormant_investors
 SELECT investor account number, MAX(trade date) AS last txn
 FROM transactions
 GROUP BY investor account number
 HAVING MAX(trade_date) < CURRENT_DATE - INTERVAL '90 days'
) dormant;
DAX:
Use a calculated column with MAXX per investor and filter where last txn < TODAY() - 90
KPI 25: Sales Rep Leaderboard (Based on Net Flow)
Definition: Ranking of reps by net flow.
Chart: Bar / Leaderboard Table
SQL:
```

```
sql
Copy
Edit
SELECT sales_representative, SUM(dollar_amount) AS net_flow
FROM transactions
GROUP BY sales_representative
ORDER BY net_flow DESC;
DAX:

dax
Copy
Edit
Net Flow = SUM('transactions'[dollar_amount])
```