



Power BI reporting project

Healthcare out-of-network solutions company

Built a reporting suite on Power BI for Accounting & Finance domain that included Revenue, Accounts Receivables, Billings, Commissions & Accounting functions

Healthcare out-of-network solutions company needs “better coverage” of its financial performance

Picture this...

You’re looking to set up the new reporting suite on Power BI for Accounting & Finance domains that includes Revenue, Accounts Receivables, Billings, Commissions & Accounting functions to have a better visibility into the company’s performance.

You turn to Accordion.

We partner with your team to streamline the BI reporting suite to provide more visibility into the financial performance, including:

- 1) Analyzing the accounting system (Quick Books Online) and billing system (Invoices and payments data) to identify the relevant KPIs and cleanse the data
- 2) Building automated ETL processes to load the accounting data daily from QuickBooks in the integrated database using API connection
- 3) Developing data cubes on the integrated database and creating ready-to-serve data marts for analytical and reporting purposes
- 4) Developing automated Power BI dashboards on top of these data cubes to analyze the financial performance
- 5) Incorporating automated data validation and reconciliation rules at every ETL step across the entire process to ensure accuracy and consistency in data

Your value is enhanced.

- You have consistent and standard KPIs captured across different reports/business functions and an automated BI reporting process with access to nearly real time data
- You have better visibility into the financial performance of the company and its reporting, based on cleansed and validated data
- You also have a central data access management to enable easy distribution of reports across the company

KEY RESULT

- Impact 1...
- Impact 2...

VALUE LEVERS PULLED

- Automated ETL processes
- Data cubes and ready-to-serve data marts
- Power BI based financial dashboard

Business intelligence infrastructure design and implementation

Power BI reporting project

Situation

- Client had an opportunity to streamline their BI reporting suite to provide more visibility into the company's performance
- Partnered with the client to set up the new reporting suite on Power BI for their Accounting & Finance domains that includes Revenue, Accounts Receivables, Billings, Commissions & Accounting functions

Accordion Value Add

- Analyzed the Accounting system (Quick Books Online) and Billing system (Invoices and payments data) to identify the relevant KPIs and cleanse the data
- Built automated ETL processes to load the accounting data daily from QuickBooks in the integrated database using API connection
- Developed data cubes on the integrated database and created ready-to-serve data marts for analytical and reporting purposes
- Developed automated Power BI dashboards on top of these data cubes to analyze the performance of the company performance
- Incorporated automated data validation and reconciliation rules at every ETL step across the entire process to ensure accuracy and consistency in data

Impact

- Consistent and standard KPIs across different reports/business functions and automated BI reporting process with access to latest data until the previous day
- Improved visibility in the financial performance of the company and reporting based on cleansed and validated data
- Implemented central data access management and enabled easy distribution of reports across the company

Prior reporting processes

Data Sources

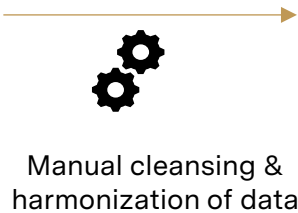
Reporting Layer



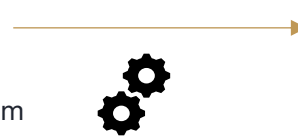
SQL Database



Excel downloads from
QuickBooks Online



Manual cleansing &
harmonization of data



Business Reports

- Invoice report
- AR reports
- Payments reports
- Commissions report

Financial reports

- Balance Sheet
- P&L reports

Observations on prior reporting plan:-

- File processing was I/O intensive operation and slowed the performance of the system. Also, possibility of files being corrupted in transmitting
- Creating Financial reports was very cumbersome as raw data from QuickBooks online needed to be transformed to develop the required Financial reports
- Management of data accesses was cumbersome and time consuming to provision new accesses

Data Structures

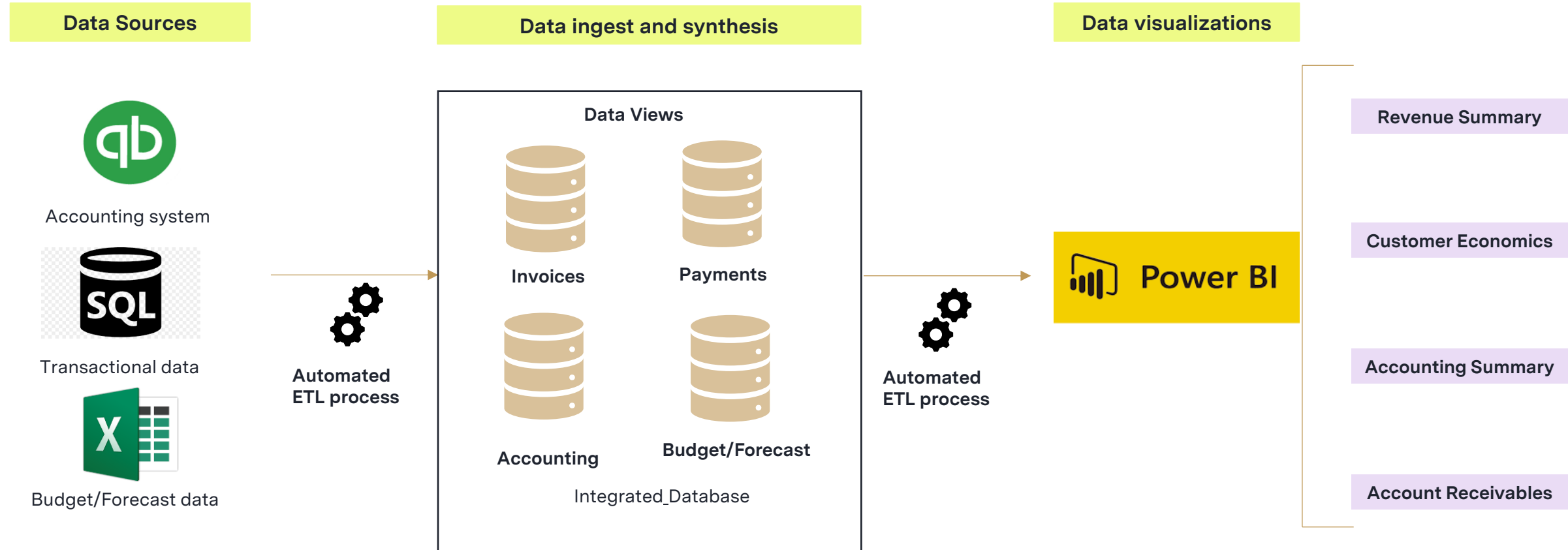


Data, Reporting and Analytics



- **Lack of consistency of data** sources across different reports
- **Lack of consistency and documentation on KPIs, formulae**
- **Prone to errors** as the data is manually updated
- **Lack of availability of real-time data**

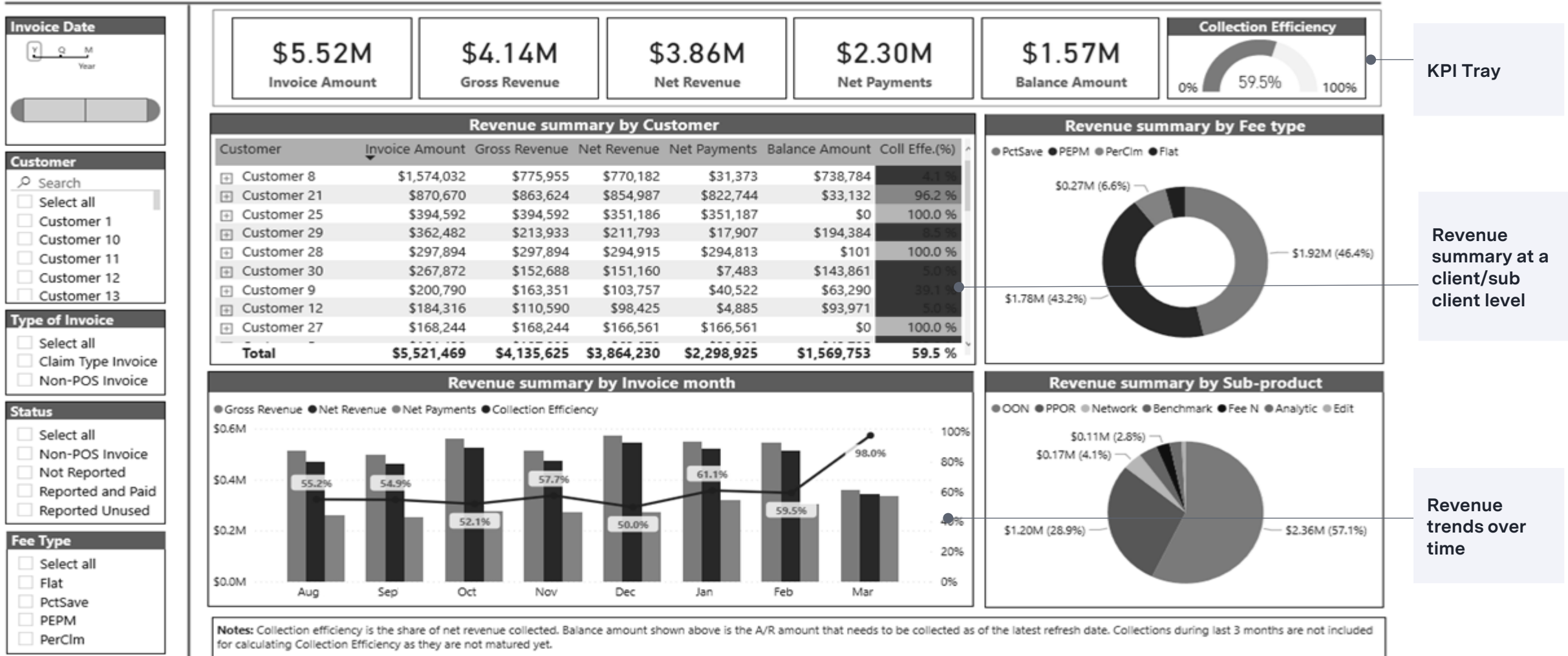
New BI infrastructure implemented



- **Built automated ETL process** to load accounting data from QuickBooks in the Integrated database using their API connection and configured e-mail alerts/notifications to monitor the overall ETL process
- **Transformed the transaction data and developed ready-to-serve data marts** for analytical and reporting purposes. **Developed Power BI dashboards on top of these data views** to monitor and track the business performance
- Incorporated **automated data validation** and **reconciliation rules** at every ETL step across the entire process to ensure accuracy and consistency in data

Revenue summary dashboard

REVENUE SUMMARY (For Invoices during Aug - Mar)



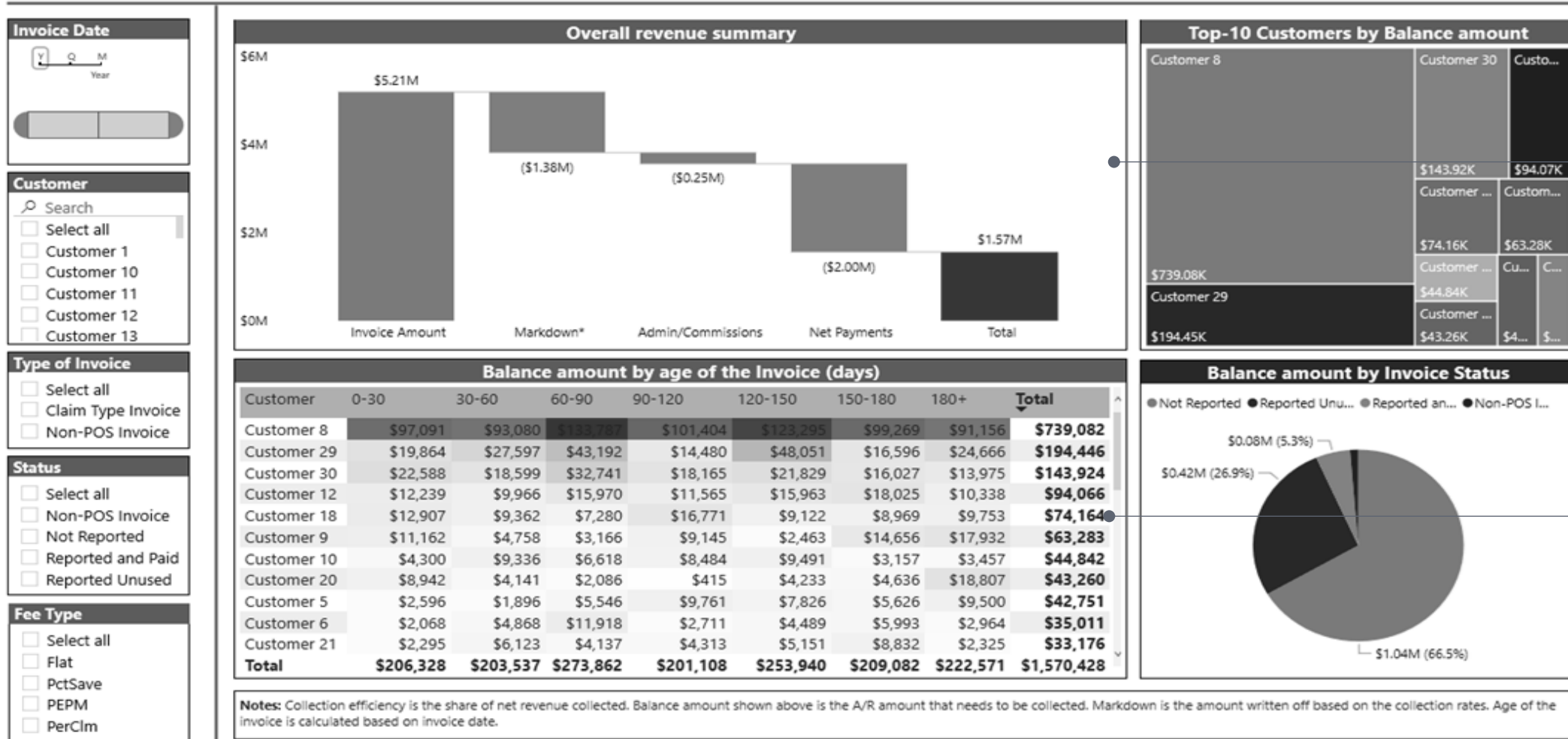
KPI Tray

Revenue summary at a client/sub client level

Revenue trends over time

Accounts receivables dashboard

RECEIVABLES SUMMARY-I (For Invoices during Aug - Mar)



Waterfall chart to provide a snapshot of the Revenue summary value chain

Total A/R bucketed by customer and age of the invoice

Customer economics dashboard

ILLUSTRATIVE

Year

Month

Search

Select all

January

February

March

April

Customer

Search

Select all

Customer 1

Customer 10

Customer 11

Customer 12

Customer 13

Customer 14

Sub-Product

Search

Select all

Analytic

Benchmark

Edit

Fee N

Network

OON

PPOR

Invoice Amount	Gross Revenue	Admn/Comm	Net Revenue	Collection Rate
\$27.41M✓ Budget: 11.32M (+142.24%)	\$19.04M✓ Budget: 7.42M (+156.51%)	\$2,058.46K✓ Budget: 569.33K (+261.56%)	\$16.98M✓ Budget: 6.85M (+147.79%)	69.46%✓ Budget: 65.59% (+5.89%)

Invoice Amount

Gross Revenue

Admn/Comm

Net Revenue

Toggle to change between KPIs

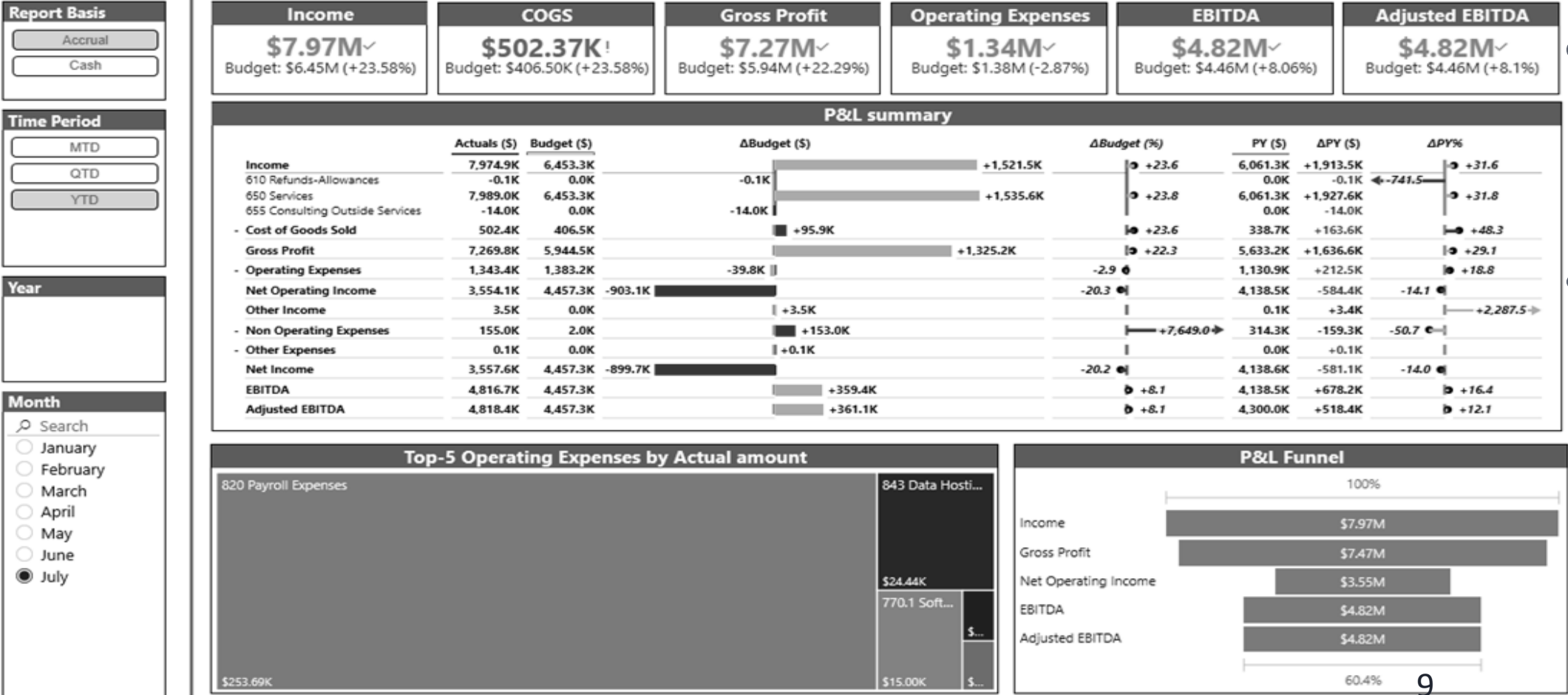
Invoice Amount summary by Customer

	Actual (\$)	Budget (\$)	ΔBudget (\$)	ΔBudget (%)	PY (\$)	ΔPY (\$)	ΔPY%
Customer 8	7,522.8K	4,079.5K	+3,443.3K	+84.4	1,590.1K	+5,932.7K	+373.1
Customer 31	2,709.0K	1,098.3K	+1,610.7K	+146.7	1,150.3K	+1,558.7K	+135.5
Customer 24	2,453.3K	907.9K	+1,545.4K	+170.2	693.2K	+1,760.1K	+253.9
Customer 32	3,145.7K	667.8K	+2,477.9K	+371.0	1,702.9K	+1,442.9K	+84.7
Customer 14	1,561.6K	602.8K	+958.8K	+159.1	754.9K	+806.7K	+106.9
Customer 5	1,393.6K	430.9K	+962.7K	+223.4	905.4K	+488.1K	+53.9
Customer 10	1,685.2K	404.4K	+1,280.7K	+316.7	433.0K	+1,252.1K	+289.2
Customer 22	864.3K	381.8K	+482.5K	+126.4	374.7K	+489.6K	+130.7
Customer 11	1,094.7K	350.0K	+744.7K	+212.8	454.3K	+640.4K	+140.9
Customer 28	975.7K	350.0K	+625.7K	+178.8	382.7K	+593.1K	+155.0
Customer 26	492.7K	335.0K	+157.7K	+47.1	0.0K	+492.7K	
Customer 7	1,007.0K	278.1K	+728.9K	+262.1	403.9K	+603.1K	+149.3
Customer 20	351.6K	273.3K	+78.2K	+28.6	92.8K	+258.8K	+278.8
Customer 30	508.5K	175.0K	+333.5K	+190.6	212.0K	+296.5K	+139.9
Customer 2	90.3K	168.9K	-78.6K	-46.5	0.0K	+90.3K	
Customer 34	343.3K	151.7K	+191.6K	+126.3	198.1K	+145.2K	+73.3
Customer 23	343.9K	122.5K	+221.4K	+180.8	62.4K	+281.5K	+450.9
Customer 1	202.1K	87.1K	+115.0K	+132.0	107.4K	+94.6K	+88.1
Customer 13	183.5K	77.0K	+106.5K	+138.4	57.1K	+126.5K	+221.6
Customer 19	0.0K	72.5K	-72.5K	-100.0	0.0K		
Customer 9	0.0K	66.7K	-66.7K	-100.0	0.0K		
Customer 15	138.1K	50.9K	+87.2K	+171.3	83.9K	+54.2K	+64.6
Customer 33	78.2K	46.7K	+31.5K	+67.6	0.0K	+78.2K	
Customer 4	10.2K	33.3K	-23.2K	-69.5	0.0K	+10.2K	
Customer 27	63.1K	31.1K	+32.0K	+102.9	26.8K	+36.3K	+135.2
Customer 16	66.2K	28.0K	+38.2K	+136.5	17.5K	+48.7K	+278.9
Customer 12	6.2K	15.0K	-8.8K	-58.8	0.0K	+6.2K	
Customer 18	24.2K	14.0K	+10.2K	+72.6	14.4K	+9.7K	+67.5
Customer 29	7.6K	7.0K	+0.6K	+9.0	3.9K	+3.7K	+94.5
Customer 3	66.6K	5.8K	+60.8K	+1,042.4	0.0K	+66.6K	
Customer 21	5.1K	2.9K	+2.2K	+74.5	5.1K	0.0K	0.0
Customer 25	16.8K	0.0K	+16.8K		0.0K	+16.8K	
Total	27,411.3K	11,315.9K	+16,095.4K	+142.2	9,727.1K	+17,684.2K	+181.8

Comparison with budgets and PY numbers

Accounting dashboard

P&L SUMMARY-ACCRUAL BASIS (Jan - Jul)



KPI cards with comparison to budgets

P&L statement with PY & budget comparison with flexibility to look at each line-item level