

Delivering Trusted Data: Collibra's Modern Approach To Data Quality

Henry Tram, Lead Sales Engineer – Data Quality 08/10/2022

Agenda

- Trends in Data Quality
- Collibra Data Quality & Observability (User Journey)
- Product Demonstration
- Q&A



How would you manage this company's data?

Consider the following features as we demonstrate them in action...

The data is created by your front office...

- Sales representatives record the transactions
- They have flexibility in their own software



Human Error

The data is in multiple places...

- · Your "controls" separated the data
- You have sales data and financial transactions



Technical Error

Everyone up to CEO needs that data...

- What could possibly go wrong?
- · How will you discover it?



No Error



Problem: Managing enterprise -scale data quality is a challenge



Problem: This leads to real costs across your organization

\$1.9B

projected data quality **spend** in 2021.

50-70%

average **time spent** on manual rule writing and management.

47%

of recently created data records have at least one **critical error**. 15-25%

lost revenue for most companies due to bad data.

Collibra Data Quality & Observability

Joy of automation





Auto-generate explainable and adaptive DQ rules

Self-service

Empower users with a unified scoring system and flexible rule management



Scalable

Scan large and diverse databases, files and streaming data



- Discover data quality issues
- "Feels" statistical, not code
- Scales as easy a identify, scan, discover, train





Connect to Data Sources

2 Create Dataset & View Findings

DQ Core Components 3



















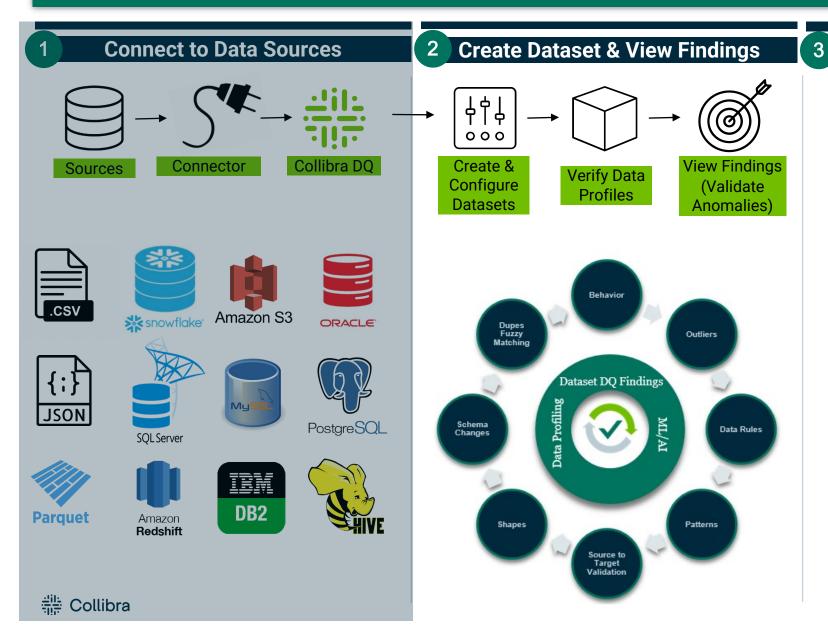




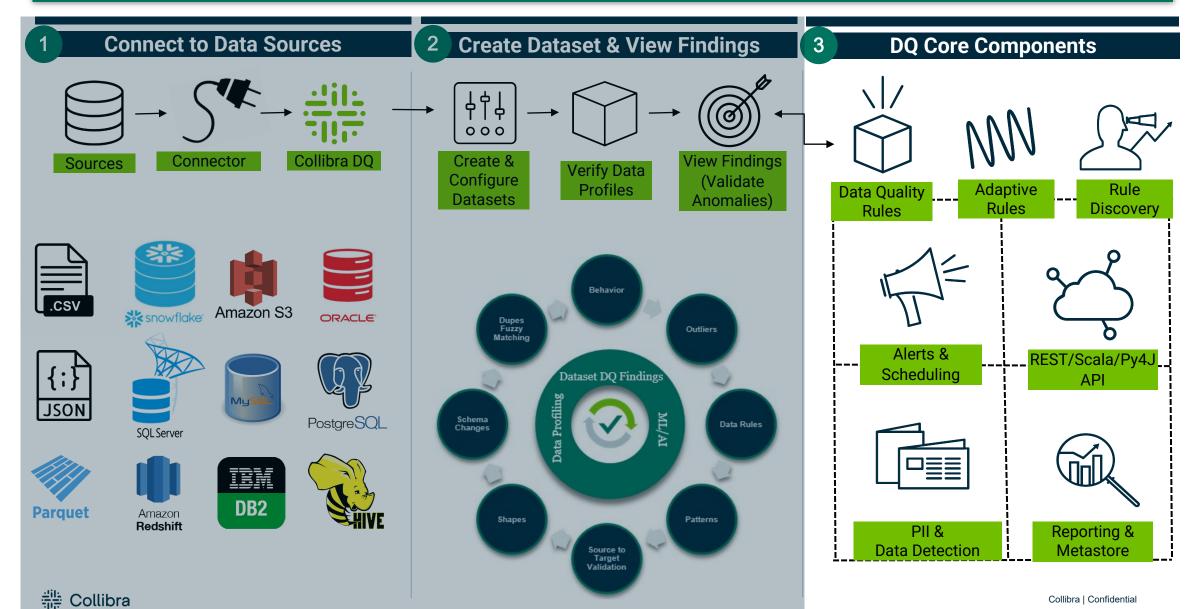




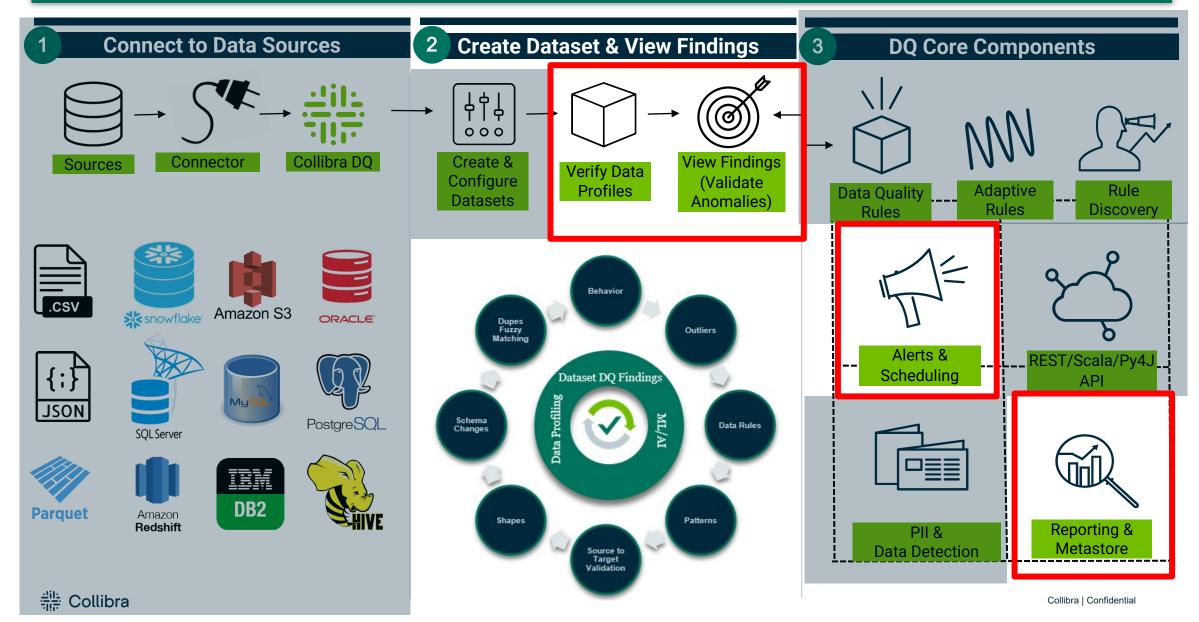


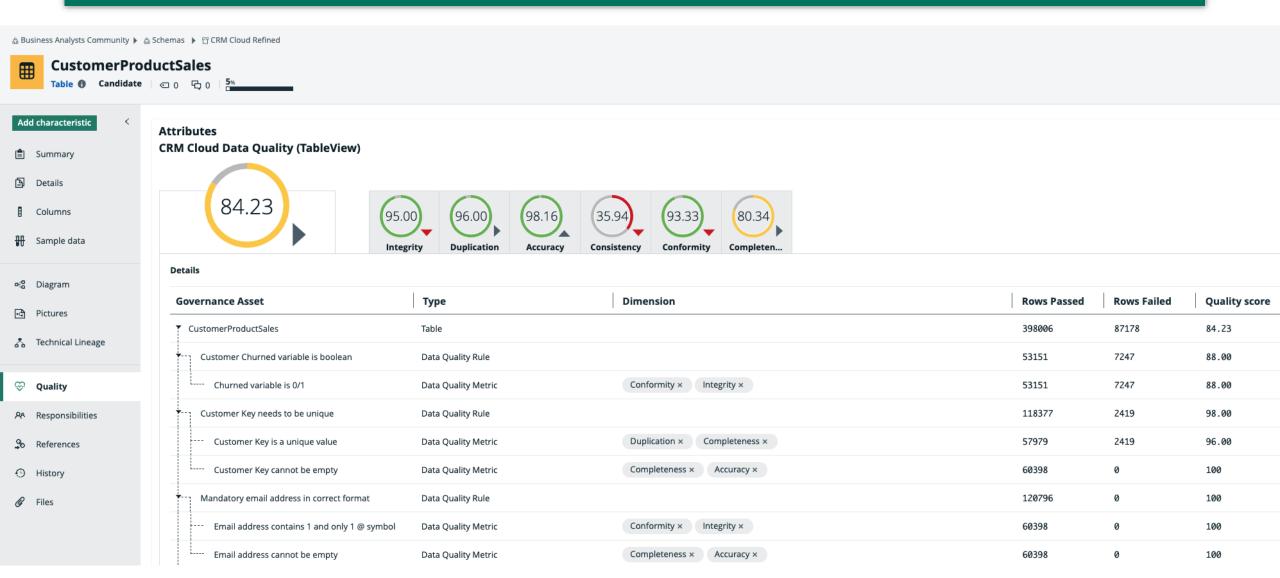




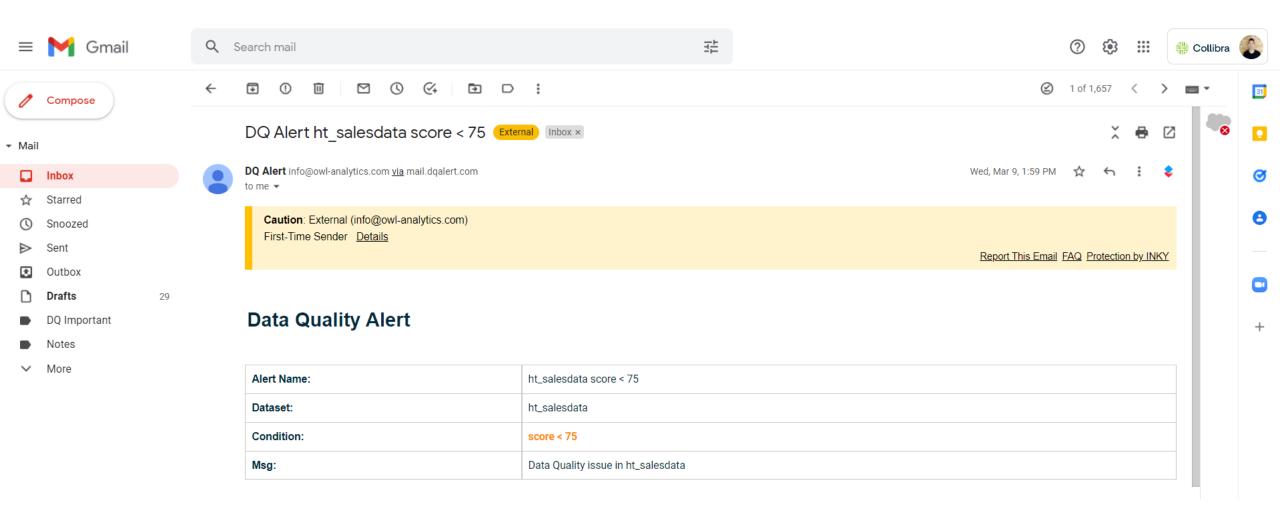














Real data, real use case... Sales Data

(1)_													
ld	Date	Time	Daily_ID	First_Name	Last_Name	Email	Vendor_Type	Cost	Cost_Code	Cost_Description	Sales Rep	Sale_State	State_Tax
1	2022-01-03	8:00 AM	1	Waly	Measor	wmeasoro@wordpress.org	Electrician	1000.53	16-000	General Electrical	Kal	DE	0.000
1001	2022-01-04	8:00 AM	1	Waly	Measor	wmeasoro@wordpress.org	Electrician	1275.12	16-000	General Electrical	John	DE	0.000
2001	2022-01-05	8:00 AM	1	Waly	Measor	wmeasoro@wordpress.org	Electrician	1378.11	16-000	General Electrical	Sara	DE	0.000
3001	2022-01-06	8:00 AM	1	Waly	Measor	wmeasoro@wordpress.org	Electrician	1100.98	16-000	General Electrical	John	DE	0.000
4001	2022-01-07	8:00 AM	1	George	Malarachy	gerogegotyou@qq.com	Electrician	1280.12	16-000	General Electrical 1	1 John	DE	0.000
4980	2022-01-07	3:50 PM	3D4	Marshal	Morrice	mmorriceic@comcast.net	Subcontractor	5921.10	01-515	Temporary Lighting	John	PA	0.085
4981	2022-01-07	3:50 PM	3D5	Elane	Blas	eblasqy@blogtalkradio.com	Supervisor	7221.23	01-517	Temporary Telephone	John	СТ	0.110
4982	2022-01-07	3:51 PM	3D6	Barron	Danilovich	bdanilovich43@squarespace.com	Estimator	7052.15	01-510	Temporary Utilities	John	NY	0.115
4983	2022-01-07	3:52 PM	3D7	Rogerio	Sappell	rsappell1w@miibeian.gov.cn	Electrician	2199.64	07-200	Thermal Protection-Insulation	John	NY	0.115
4984	2022-01-07	3:52 PM	3D9	Holly	Sephton	hsephtonnp@hao123.com	Construction Expeditor	4188.61	04-800	Masonry Assemblies	John	PA	0.085
4985	2022-01-07	3:53 PM	3D0	Dannel	Vannozzii	dvannozzii2h@bing.com	Subcontractor	5146.13	01-630	Product Substitution Procedures	John	DE	0.000
4986	2022-01-07	3:53 PM	3DB	Juliette	Boughen	jboughen4c@outlook.com	Electrician	1954.03	04-500	General Refractories	John	DE	0.115
4988	2022-01-07	3:53 PM	3DD	Francine	Todarini	ftodarini1 <u>o</u> @aol.com	Engineer	3807.93	02-200	Site Preparation	John	NY	0.115
4989	2022-01-07	3:54 PM	3DE	Francine	Todarini	ftodarini1@aol.com	Engineer	3807.93	02-200	Site Preparation	John	NY	0.115
4990	2022-01-07	3:54 PM	3DF	Dorothea	Daltrey	ddaltreypd@1und1.de	Surveyor	5745.87	1.630	Product Substitution Procedures	John	PA	0.085
4991	2022-01-07	3:55 PM	3E0	Lorelei	Walkey	lwalkeybw@paginegialle.it	Engineer	1323.83	01-530	Temporary Construction	John	NJ	0.090
4994	2022-01-07	3:57 PM	3E3	Flinn	Skocroft	fskocroftr8@icio.us	DOCTOR	8548.72	02-311	Final Grading	John	NY	0.115
4996	2022-01-07	3:58 PM	3E5	Katerine	McTaggart	kmctaggarteq@apple.com	Subcontractor	6225.50	13-500	Recording Instrumentation	John	СТ	0.110
4997	2022-01-07	3:59 PM	3E6	Desiree	Sylett	dsylett4k	Construction Worker	2618.29	02-822	Ornamental Metal Fences and Gates	John	NYY	0.115
4998	2022-01-07	3:59 PM	3E7	Lorelei	Walkey	lwalkeybw@paginegialle.it	Supervisor	239100	15-400	Plumbing Fixtures and Equipment	John	NY	0.115
4999	2022-01-07	3:59 PM	3E8	Cletis	Pennington	cpenningtonnv@deliciousdays.com	Surveyor	0	3-120	Pre-Engineered Structures	John	PA	0.085



Use Cases For Large Data Processing

150 Million rows, 31 columns, <u>in 45 minutes</u>

- 18 Spark Executors, 12GB RAM, 4 CPUs per Executor and 4GB RAM per Executor
- Success!

44 Million rows, 495 columns, in 79 minutes

- 46 Spark Executors, 24GB RAM, 8 CPUs per Executor and 4GB RAM per Executor
- Success!

65 Million rows, 270 columns, <u>in 4 hours</u>

- 10 Spark Executors, 25GB RAM, 8 CPUs per Executor and 4GB RAM per Executor
- Success!

65 Million rows, 100 columns, <u>in 1.5 hours</u>

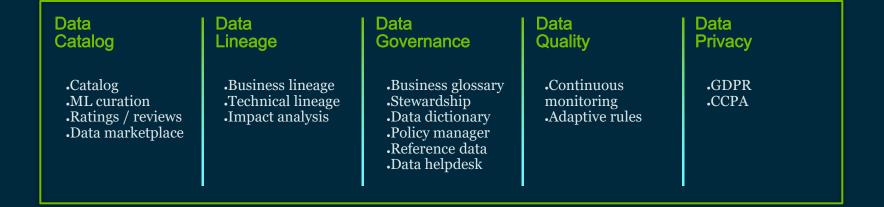
- AWS EMR, 5 nodes, 20 Executors, 4 CPUs per Executor and 9GB RAM per Executor
- Success!



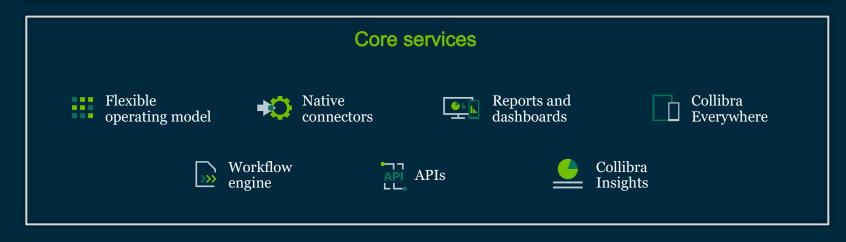
Data quality is core to data intelligence

Govern. Trust. Access.





Active metadata graph



Q&A

Remember to submit your questions!





Thank you!