



Job Monitoring Dashboard

(Multichannel Video Programming Distributor)

Developed Tableau dashboards and backend data architecture to enable real-time job status monitoring.

JOB MONITORING DASHBOARD FOR MULTICHANNEL VIDEO PROGRAMMING DISTRIBUTOR

ABOUT THE CLIENT

Client is a multichannel video programming distributor in U.S with 15M+ subscriber base



SITUATION

- Client's advanced analytics vertical struggled to get timely and organized reports on the job statuses. This hindered their ability to make informed decisions and take necessary actions, potentially resulting in dissatisfied customers and lost revenue.
- Merilytics partnered with the client to create job monitoring dashboards to track jobs with multiple refresh frequencies and provide near real-time status updates to stakeholders. Also, implemented an automated email alert system and developed the backend data architecture including reporting layer and ETL processes.



VALUE ADDITION

- Designed and implemented data architecture including reporting layer and ETL processes for data ingestion/ processing and updates to dashboards
- Developed dynamic Tableau dashboards that provide users with near real time job status updates
- Designed tree maps to visualize job dependencies, and heat maps to analyze the distribution of workload and exception statuses over time
- Established automated email alerts to notify job owners promptly in case of job failure or exceptional status updates

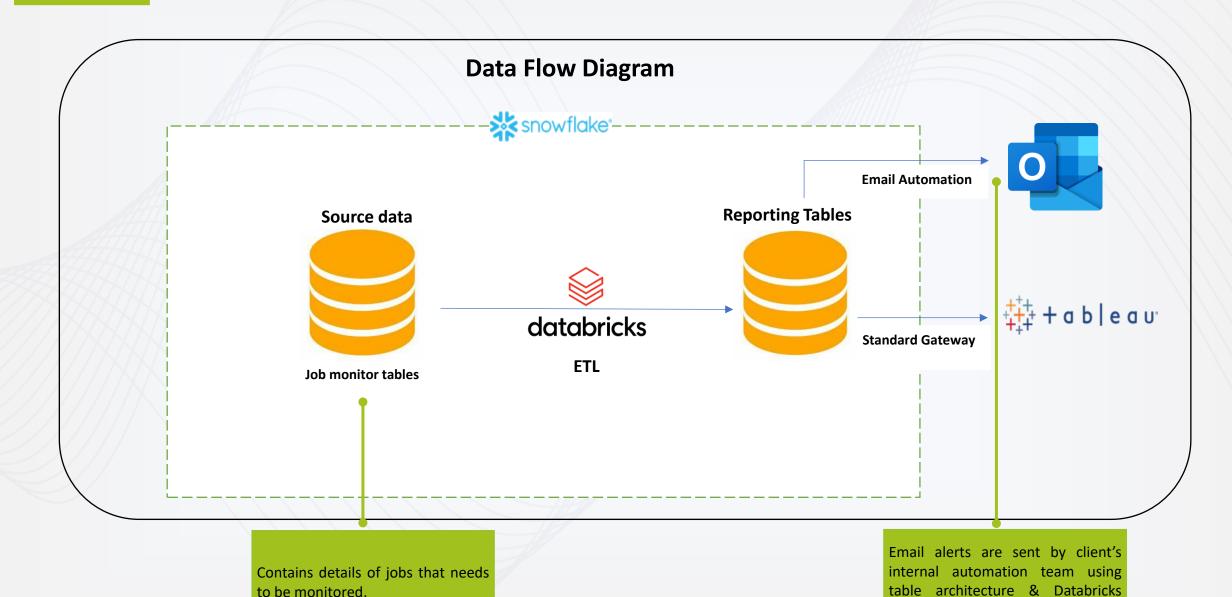


IMPACT

- Reduced the turnaround time in identifying and solving daily job issues by ~60%, resulting in improved productivity
- Dashboard provided insights into system's workload and exception statuses frequency, enabling client to take proactive measure resulting in improved client efficiency and customer satisfaction

METHODOLOGY/ APPROACH





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procedure created by Merilytics.

EXHIBIT #1 – JOB CURRENT STATUS MONITORING



ILLUSTRATIVE

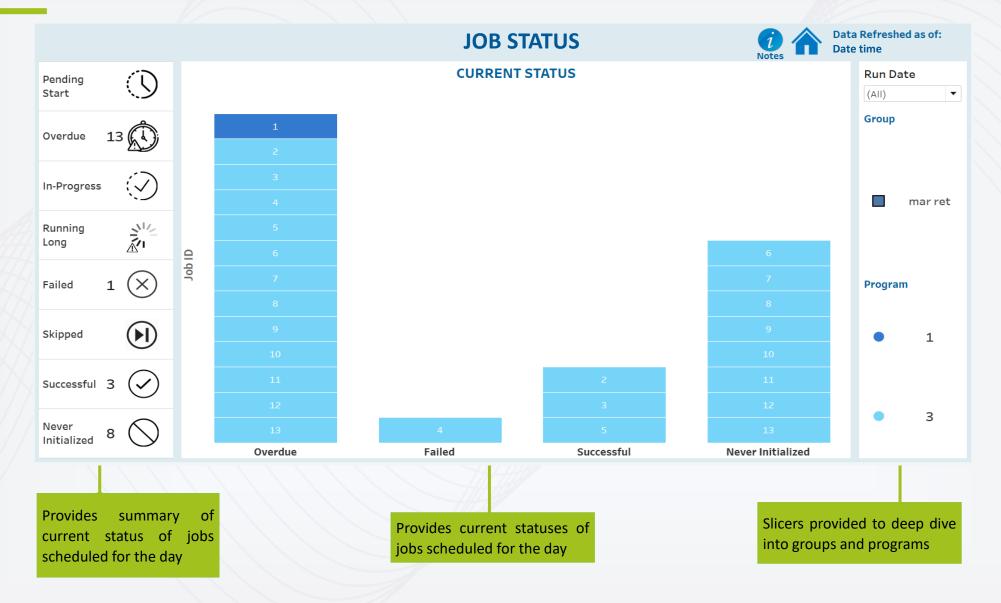
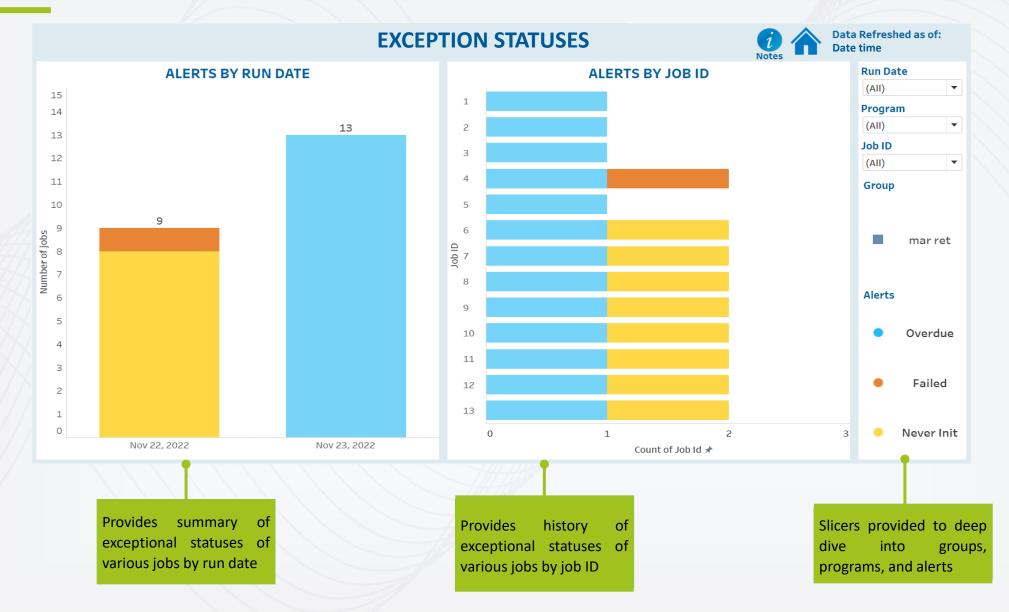


EXHIBIT #2 – EXCEPTION JOB STATUSES TRACKING











ILLUSTRATIVE

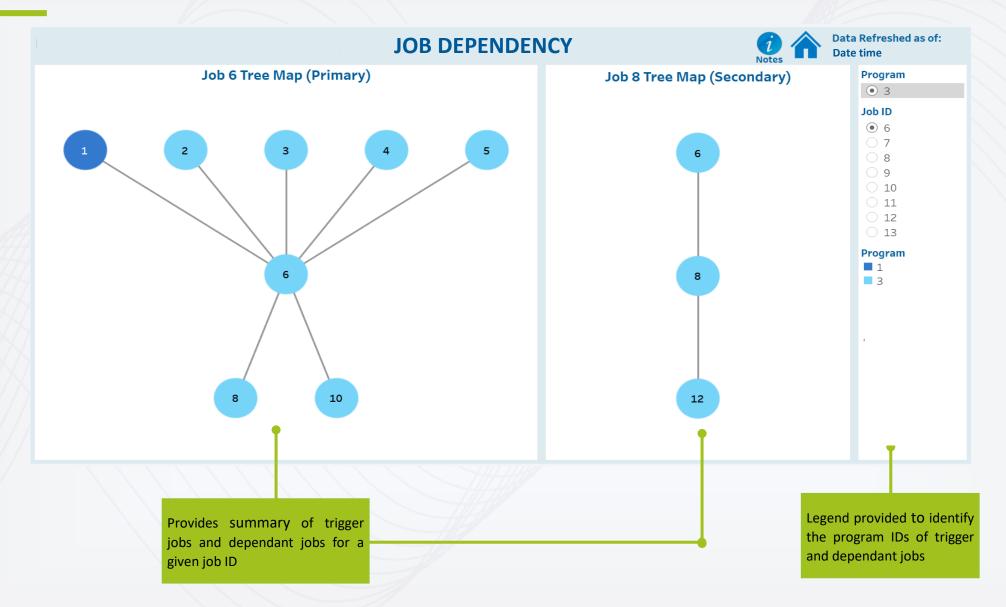


EXHIBIT #4 – JOB LOAD AND EXCEPTIONAL OUTCOME DISTRIBUTION





petween

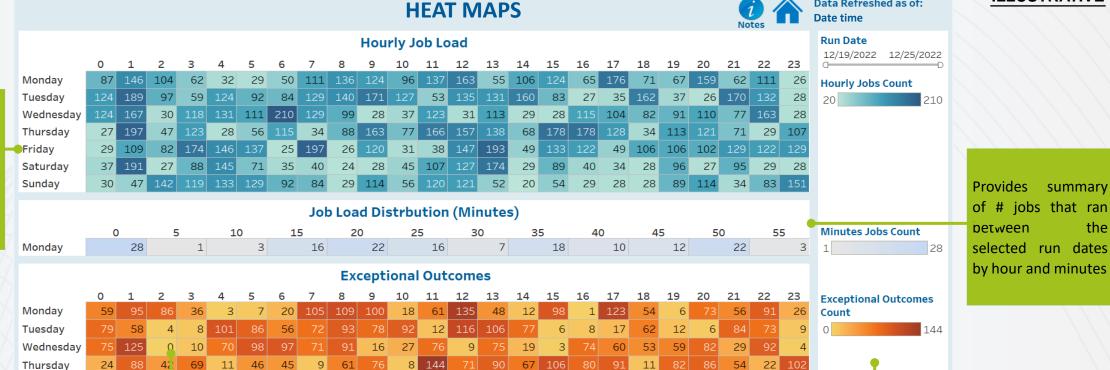
Provides summary of # jobs that ran between the selected run dates by day and hour

Thursday

Saturday

Sunday

Friday



63 125

37 116 111

12

23

19

56

29

17 76

23

6 27 28 82

Provides summary of # exceptional outcomes (only skipped and failed) occurred between the selected run dates by day and hour

32 124

97 125

Shows colour coding scheme of the heat map

Data Refreshed as of:

the

LEARNINGS



1. Built data architecture for near real-time refresh of Tableau dashboards:

Gained expertise in designing and implementing data architecture for real-time data ingestion/processing and updates to Tableau dashboards.

2.Implemented automated email alert system using Databricks and Snowflake:

- Utilized Databricks and Snowflake platforms to set up automated alerts for specific events or triggers.
- Developed workflows to automate the generation and distribution of email alerts based on predefined criteria.

3. Enhancing knowledge of Tableau, Databricks, and Snowflake platforms:

- Gained deeper insights into the features and functionalities Tableau, Databricks, and Snowflake.
- Improved proficiency in using various tools, techniques, and workflows for data analysis, processing, and visualization.