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Product & UX Design

Portfolio Presentation

Bluesky Data

Founding Designer

bluesky

Bluesky Data

Transforming Snowflake data management through intelligent, cost-effective optimization.

Overview:

- Third-party web application providing analysis and recommendations on data handling for users of Snowflake.
- Provides suite of cost governance tools where Bluesky could auto-update a user's settings or provide SQL for the customer to apply themselves.
- Analysis covered data warehouses, query handling, storage, sessions and more.
- Team of mostly engineers, business development, one product manager and one (founding) designer.
- Headquartered in Menlo Park, CA.

Objectives:

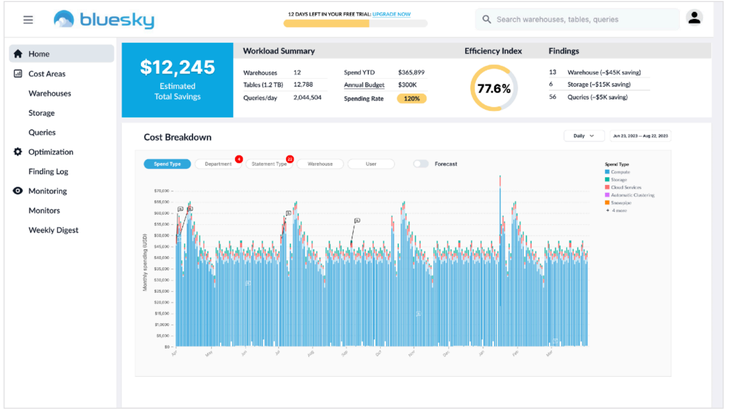
- **Redesign and enhance:** I joined Bluesky in its very early stages and many features were still being defined. My immediate tasks were to enhance existing features.
- **New feature design:** I met weekly with internal stakeholders and customers to gather feedback on potential new features to design prototypes for potential products as a result of those discussions.
- Key features of the product were still being worked out depending on conversations with existing and potential clients of Bluesky.

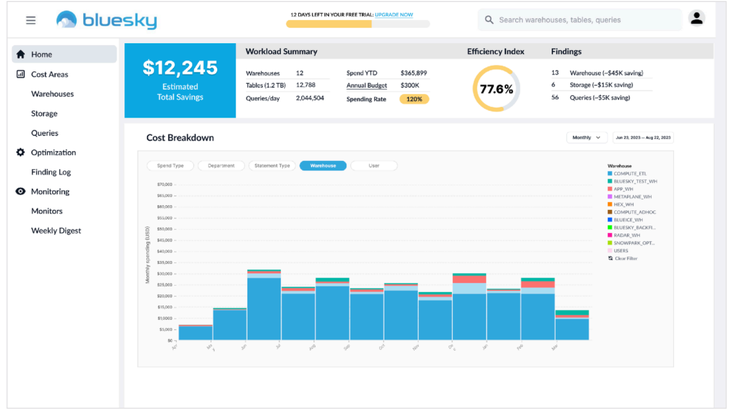
Target User: Non High-End DBA:

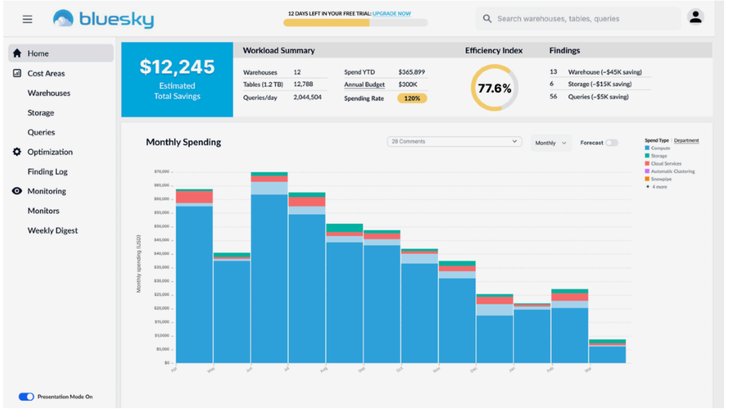
- Data analysts/scientists, data engineers, CIO/CDO.
- Looking to save on spending.
- User would need to have a working knowledge of SQL.
- High-end users with deep knowledge and understanding on data analysis and processing.

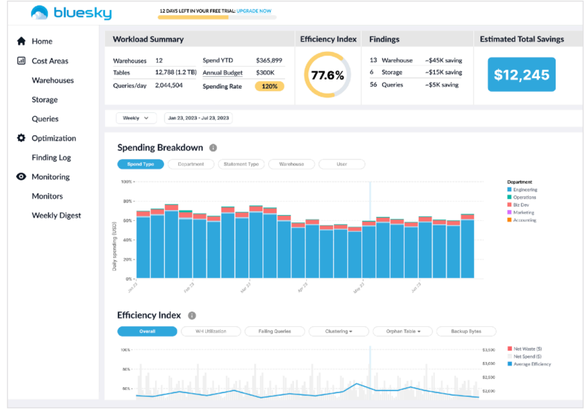
Dashboards:

- Each section in the left-bar navigation essentially had their own dashboard.
- **Home:** Breakdown of spending over time and ability to break that down into finer detail.
  - User may want to use it to present to their team and execs with comments and annotations.
  - Spend broken down by different types.
  - View by month/week/day and comments.
  - Pairing spend breakdown with efficiency index.



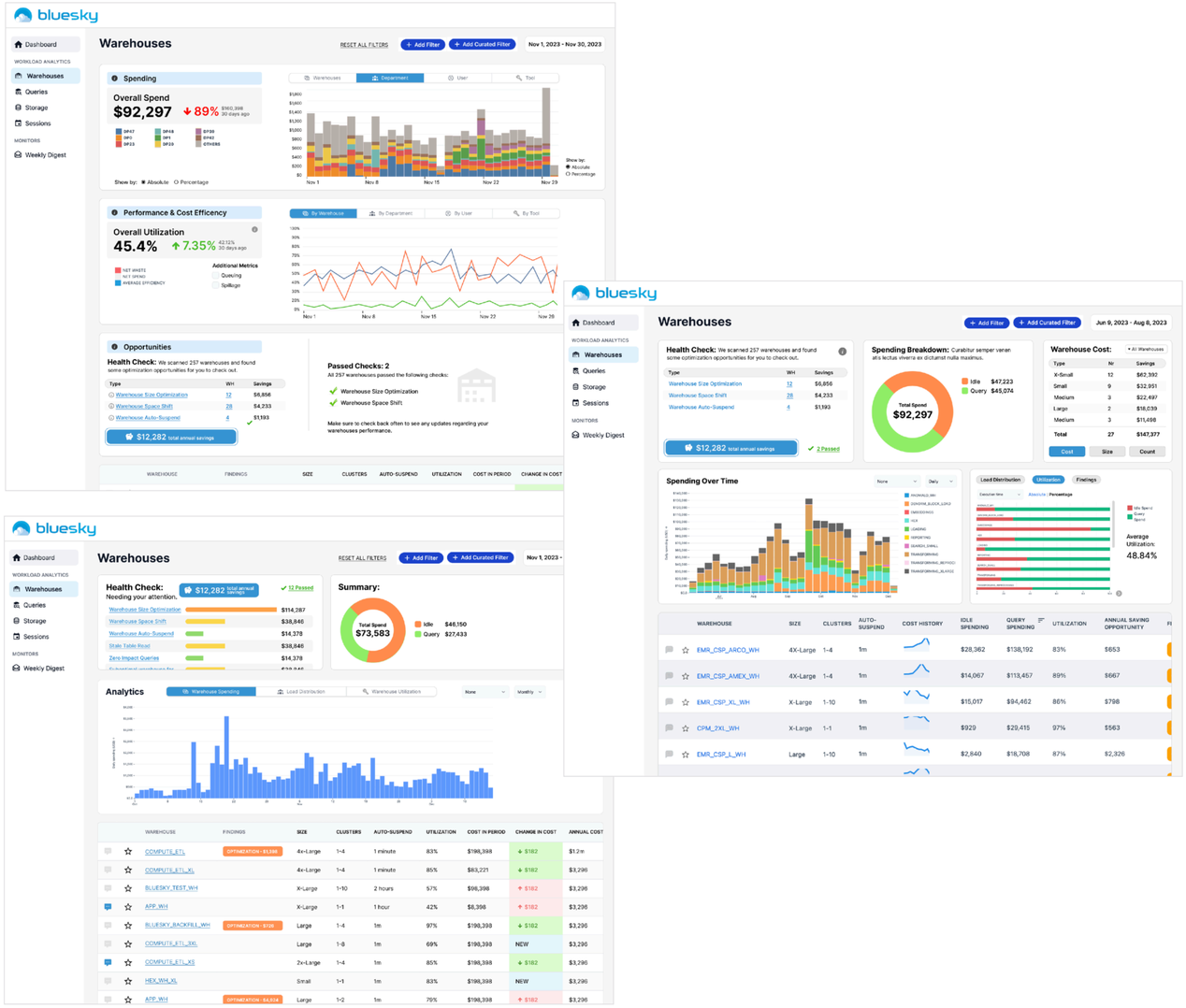






Dashboards:

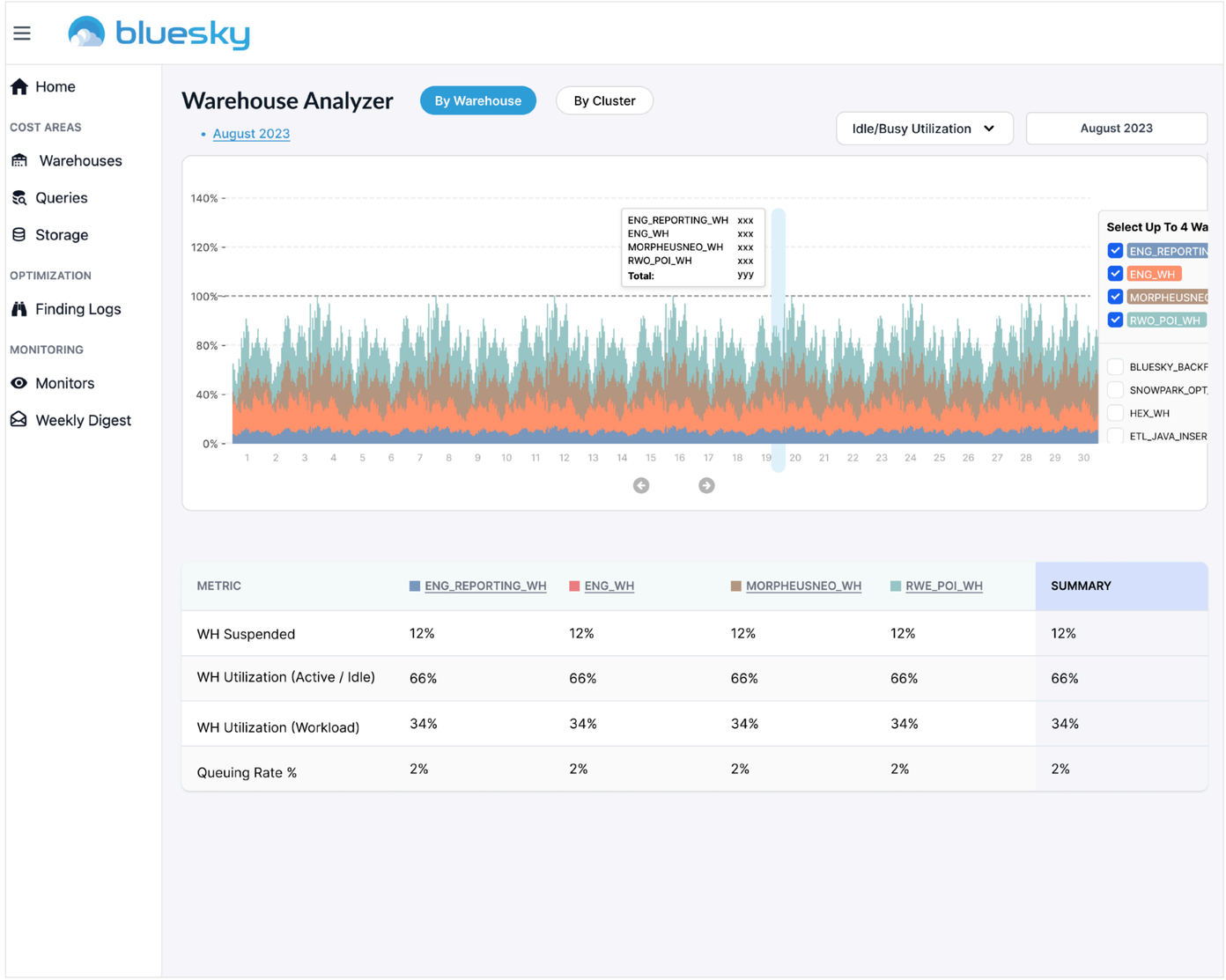
- Each section in the left-bar navigation essentially had their own dashboard.
- **Warehouses:** Breakdown of spending over time, performance, cost efficiency.
    - Recommendations based on regular health checks (e.g. warehouse downsizing).
    - User may want to use it to present to their team and execs with comments and annotations.



Additional Features

Warehouse Explorer

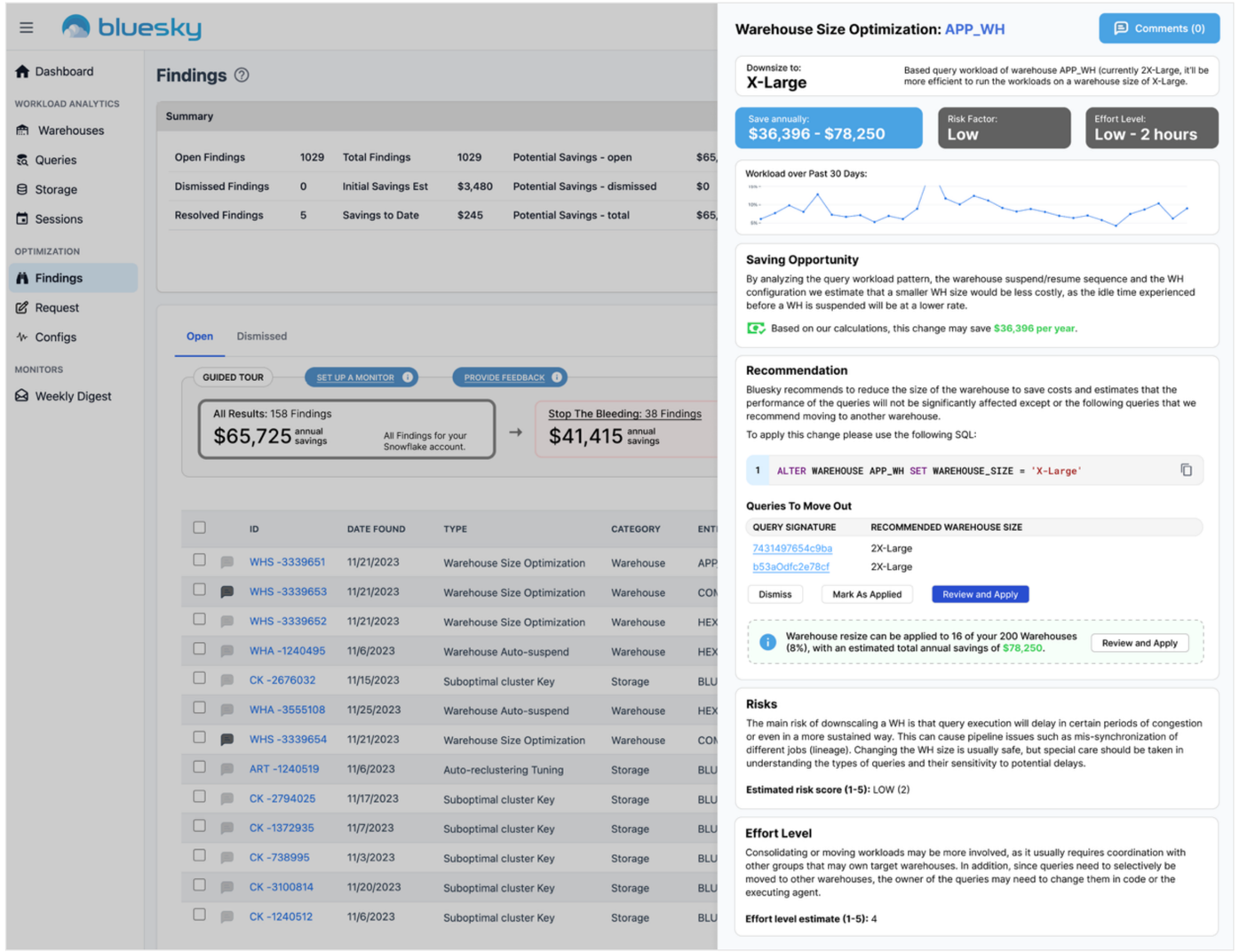
- Tool intended to provide the user with a comparison of warehouse utilization with multiple warehouses.
- Users may want to merge warehouses together into a single one in order to save on cost:
- Data pipelines may be too small for the warehouse it is in.
- Tool could compare up to four different warehouses and have the ability to view performance over a month and zoom down into 12 hours and then to 15 minute blocks.



Findings:

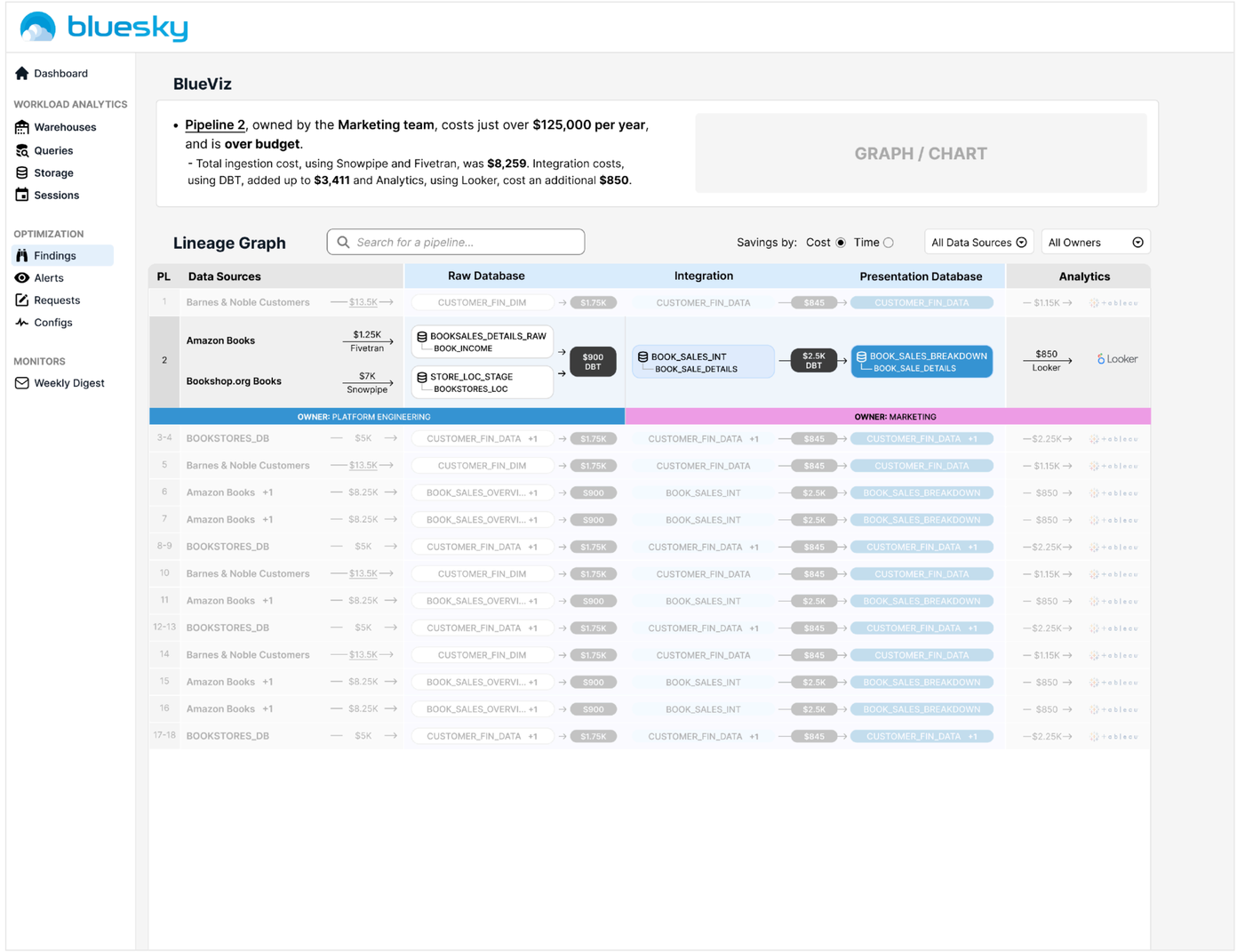
Fleet & Instance Dashboards

- Visuals communicating database health with additional two weeks of health data.
    - Color-coded health scores.
    - Additional health metrics for individual features.
- Accompanying list of actionable recommendations generated by AI/ML.
- Educate the user with additional visual overviews of data performance. This would not make it in the final released version.
- Listing of database instances and clusters.



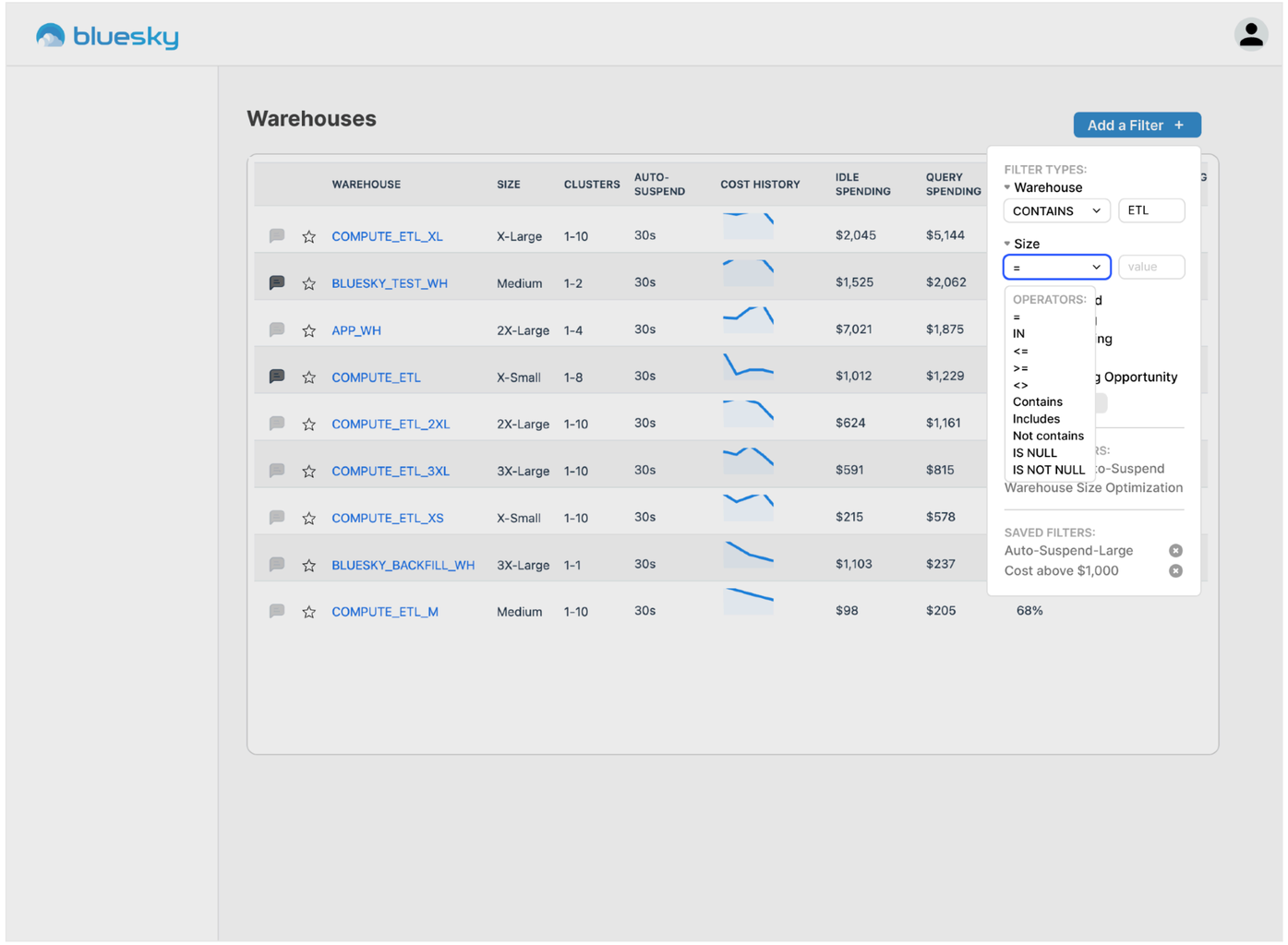
Query Lineage:

- This feature was to inform the user of an area in their Snowflake usage where spend was spiking and provide them a solution to correct not only the spike but to provide potential additional savings in their overall spend.



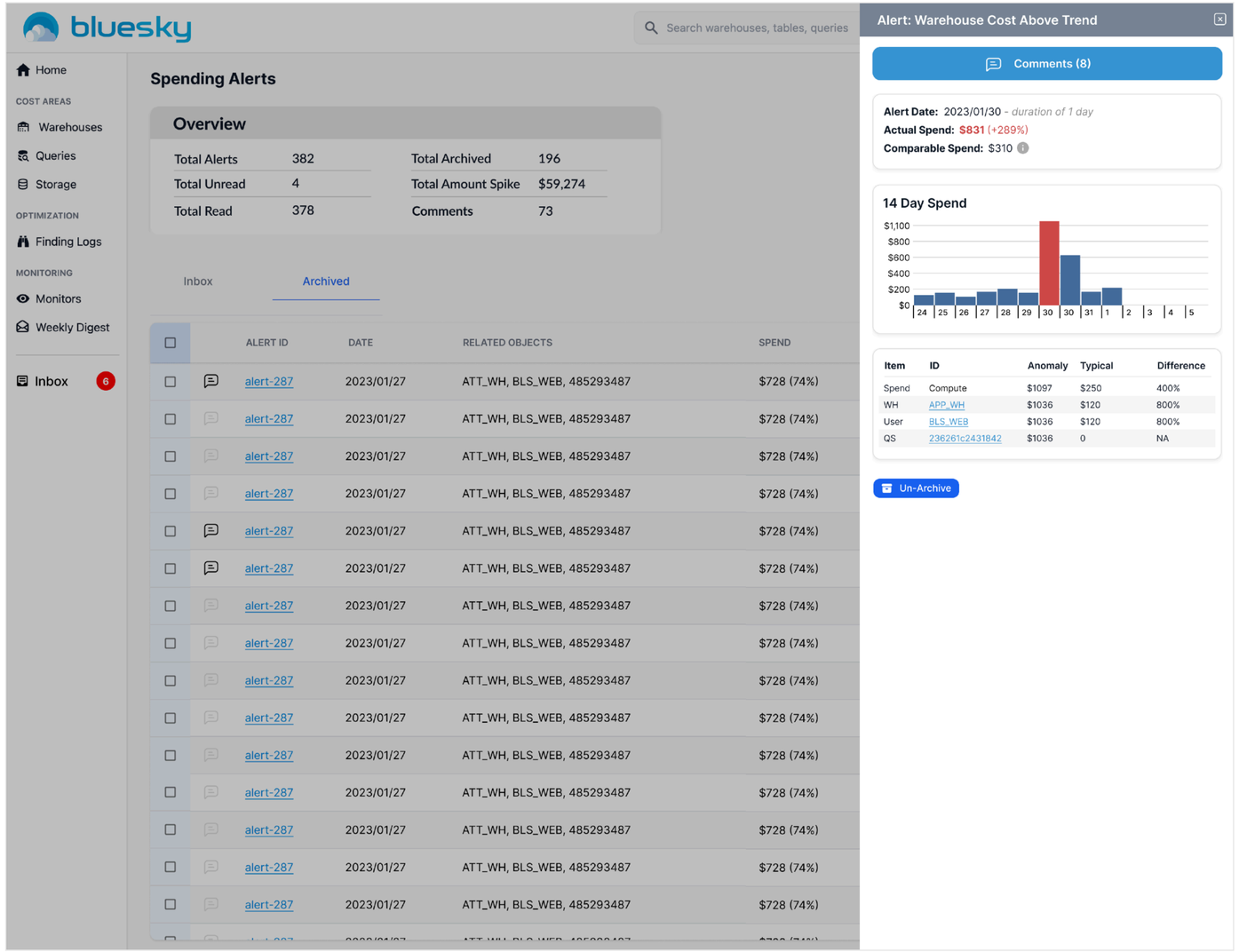
Filters:

- Quick and easy ability to filter down by name, size, spending and more.
- For warehouses, queries, stores and more.
- Original filtering method consisted of two filter buttons. Updated method merged into a simpler and faster method of filtering.



Alerts:

- Alerts immediately communicated to users for instances such as cost spikes, query issues, storage optimization and more.
- Users could view could quickly compare with data from previous week or beyond.
- Ability to communicate with team members to identify potential issues and solutions.



Comments & Annotations:

- Different locations for comments.
  - Users wanted to present charts to team members to present to company executives to explain Snowflake spend and budgeting.
  - Team members could communicate through accompanying commenting system.