GL.ai

PwC's anomaly detection
## for the general ledger

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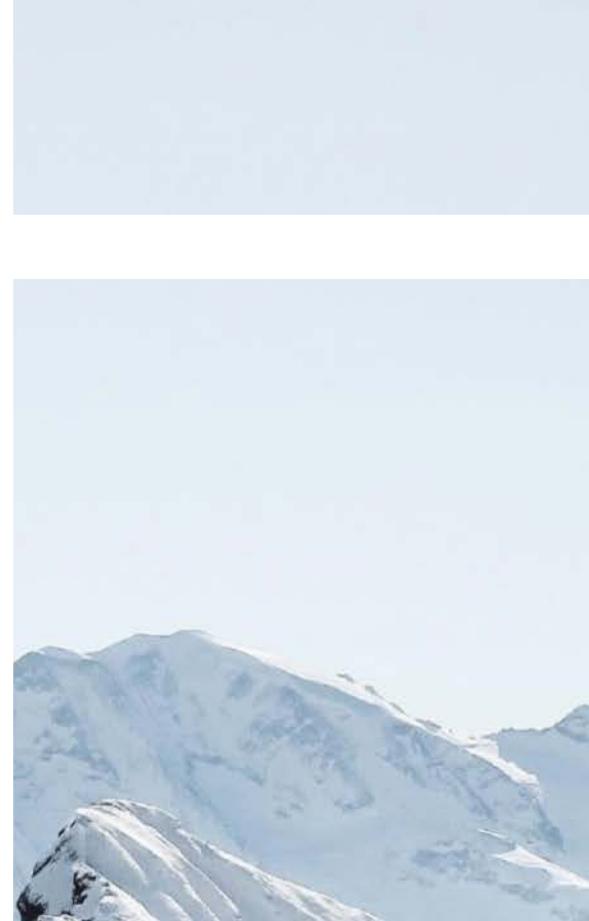
PwC's GL.ai

PwC's GL.ai is a ground-breaking bot that detects anomalies in a company's general ledger through the combination of advanced AI technology and the knowledge and experience of our top auditors.

GL.ai algorithms trained by experts from across our global network identify unusual transactions with precision and speed, looking at every line of every journal together with the behaviours of the people posting those journals.

Visualisations provide understanding and insight for each issue identified, ensuring that both auditor and client fully understand the issue and can resolve it efficiently.
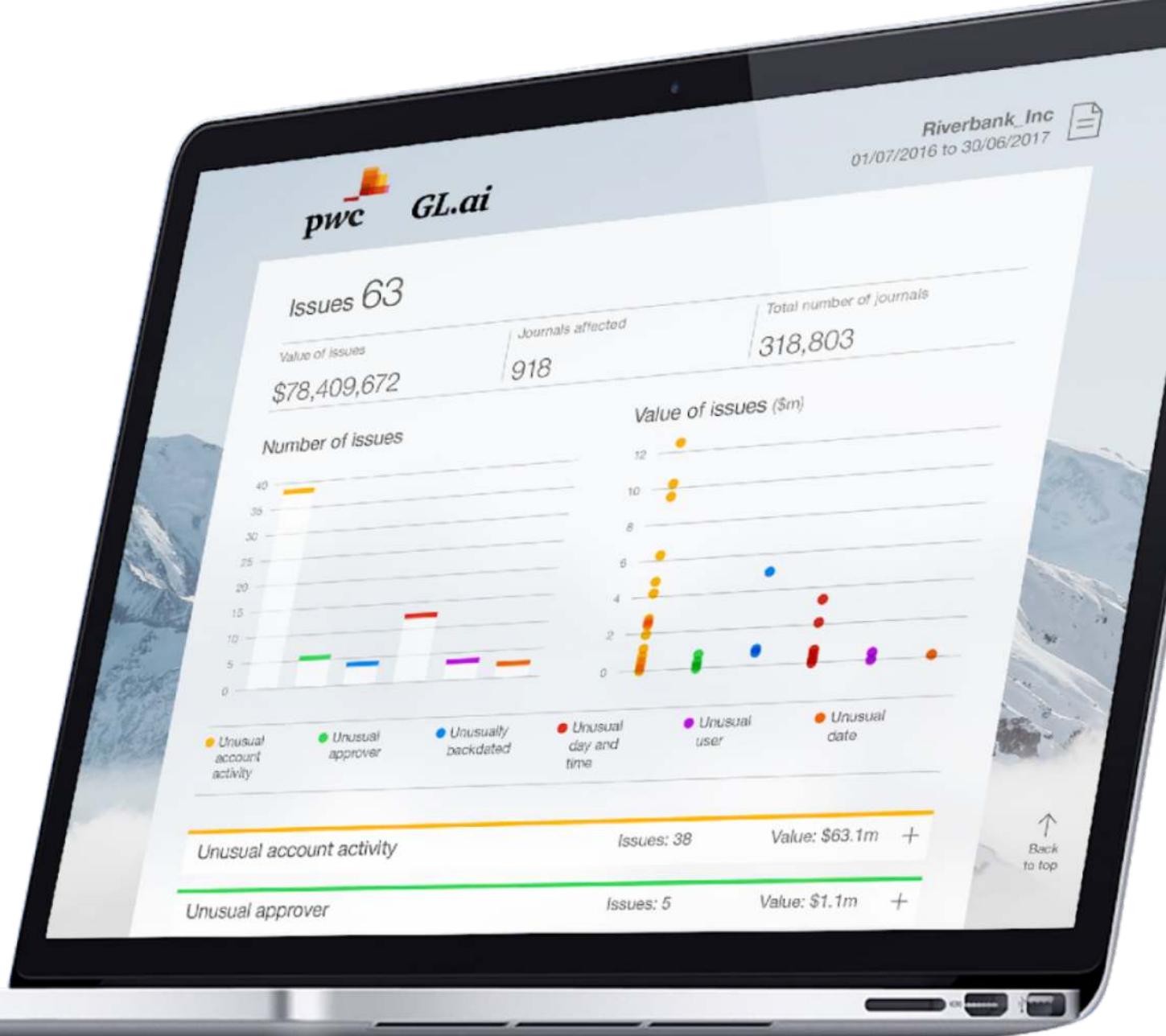
Unusual account activity

Account activity may be unusual due to a combination that rarely occurs or due to a combination that is not unusual, but the scale of its usage in a period is.
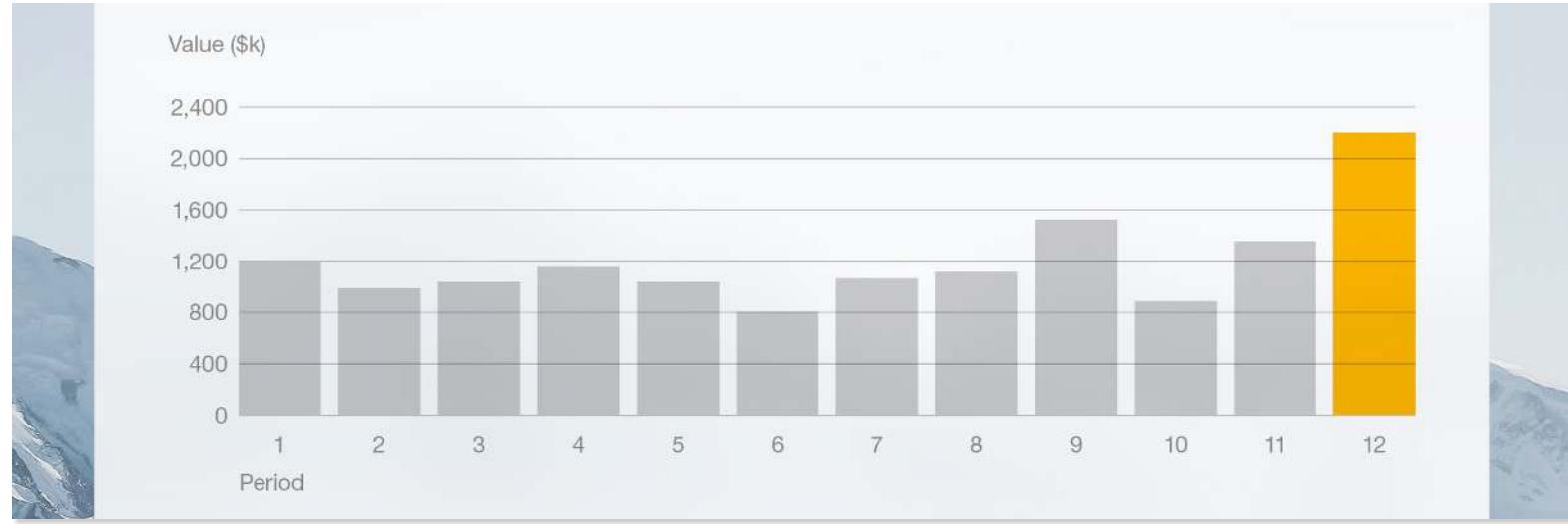
In this example, the combination was used 699 times in the year and was therefore not unusual. However, the value posted to this combination in period 12 was significantly higher than in other periods.
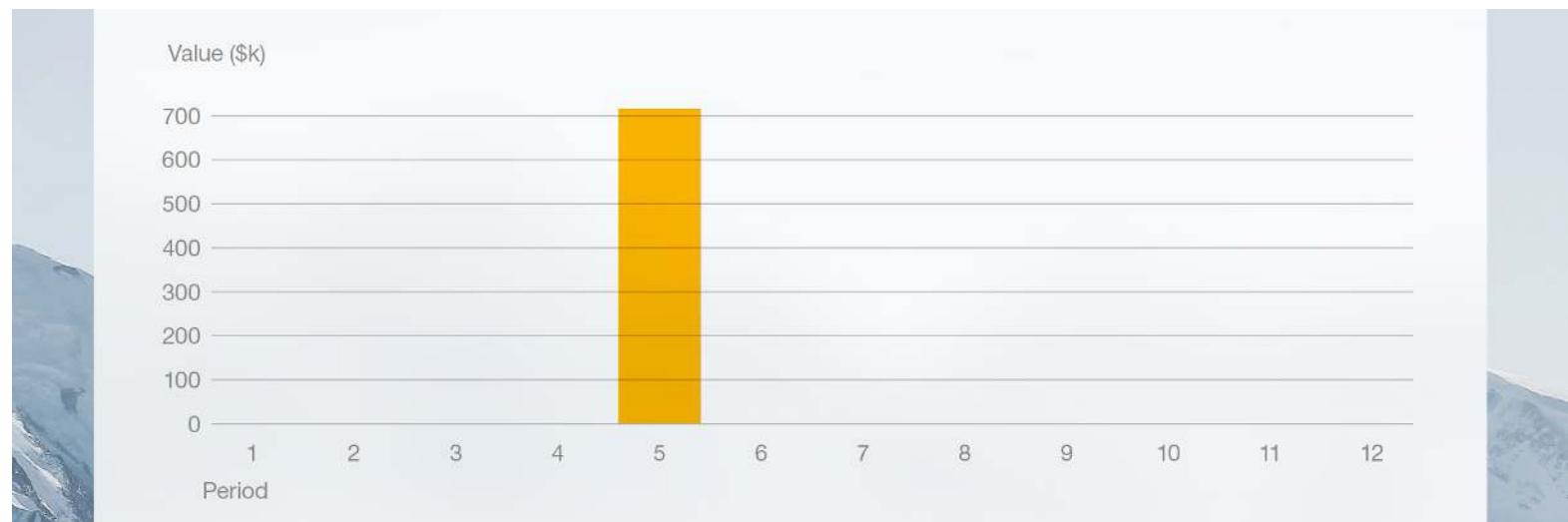

In the example shown here, the combination Cost of Sales / Revenue was used just once in the entire year.

Unusually backdated

Not only are the close procedures for businesses different, the number and timing of period-end postings varies between months.

GL.ai builds a picture of when journals are posted to close a period, then identifies those entries that are unusually late, with regard to whether the period is a quarter-end close or not.
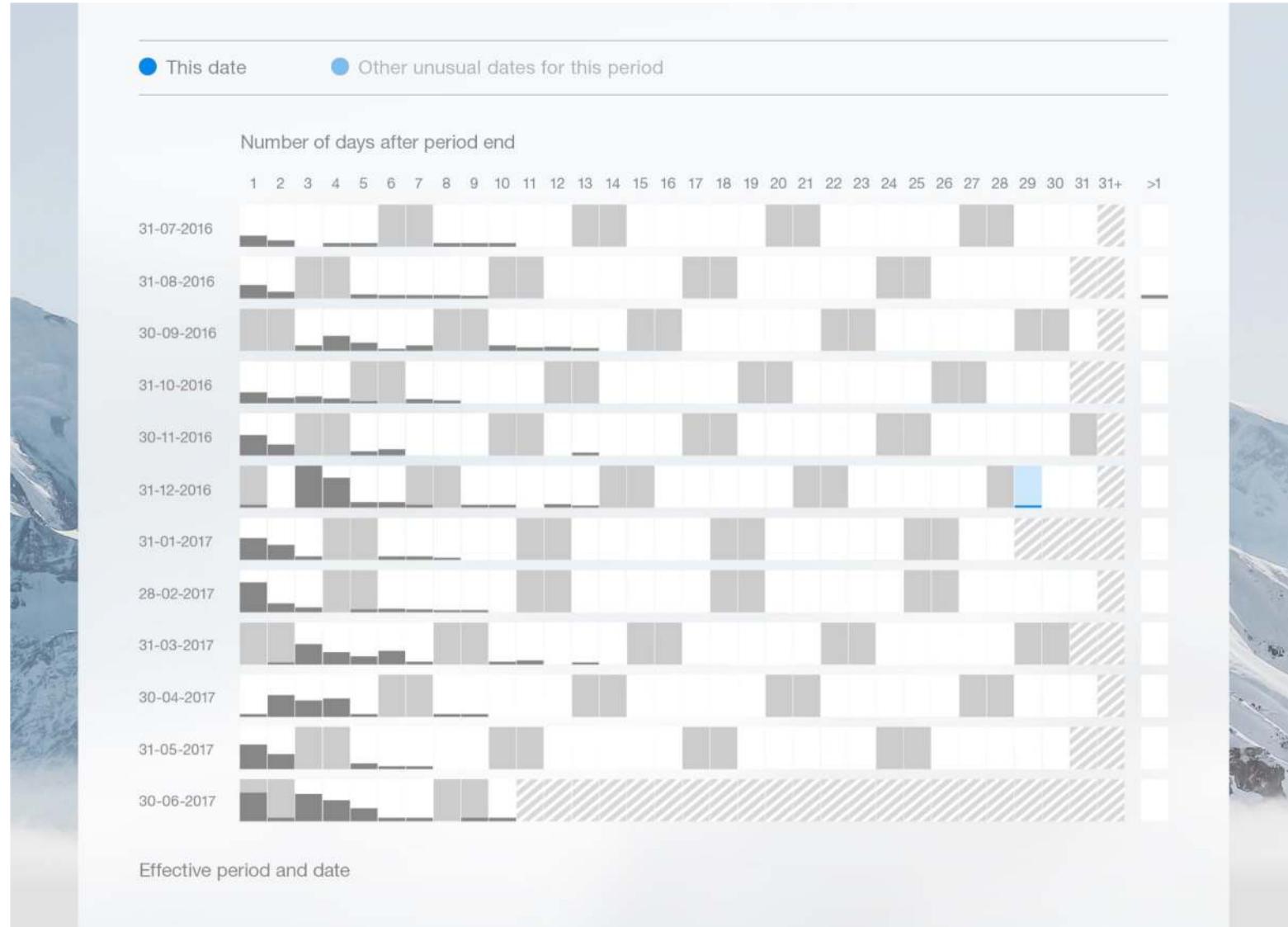
Here, the company can be seen typically to take four to seven working days to close each period, with quarter ends taking a further five days. Using this pattern, journals that are posted after the management accounts are produced are identified.

Unusual activity

**In identifying unusual activity, GL.ai considers a number of different characteristics.**

GL.ai looks at the broad range of activity within the context of what is normal for the company and the individuals posting journals. This entity-specific analysis provides a breadth and depth of analysis that can only be delivered with advanced technology.
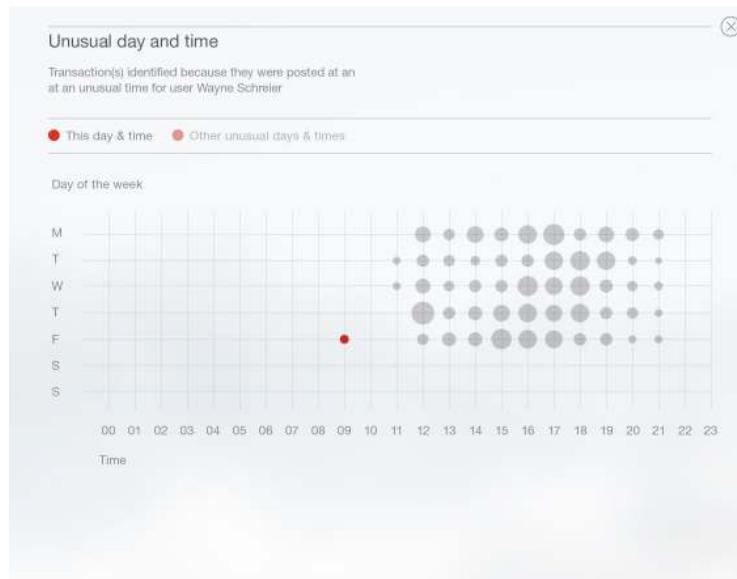
Day and time
Is somebody posting journals at a time or on a day that is unusual for them?
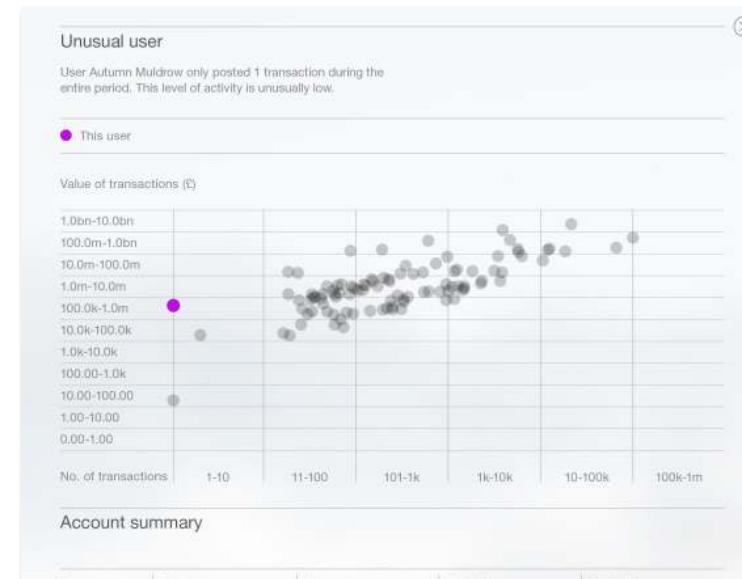
User
Is somebody who is not a regular user posting journals?
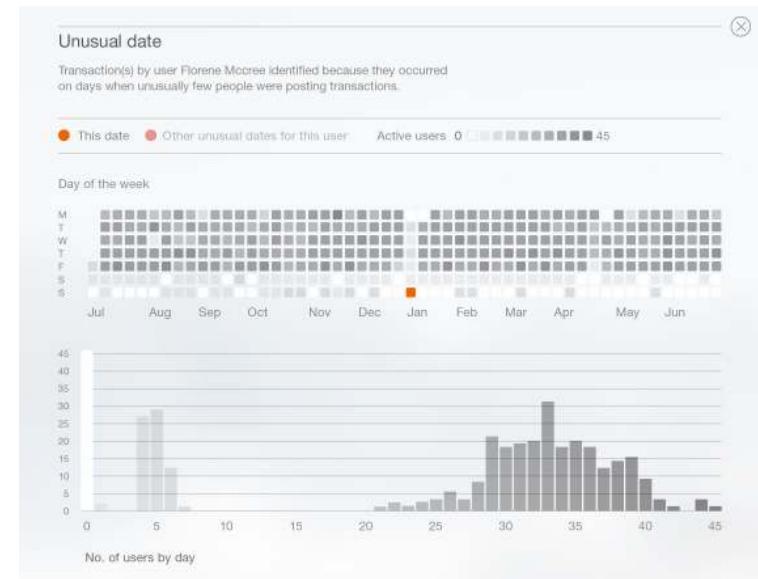
Date
Is the date of an activity unusual for that company?

Multiple dimensions

GL.ai looks beyond single unusual characteristics. Relevant unusual features are recorded for each journal, allowing the auditor to build a deeper understanding of the company.

The combination of different features helps identify entries that represent a particular risk of error or manipulation, and are therefore of greatest interest.
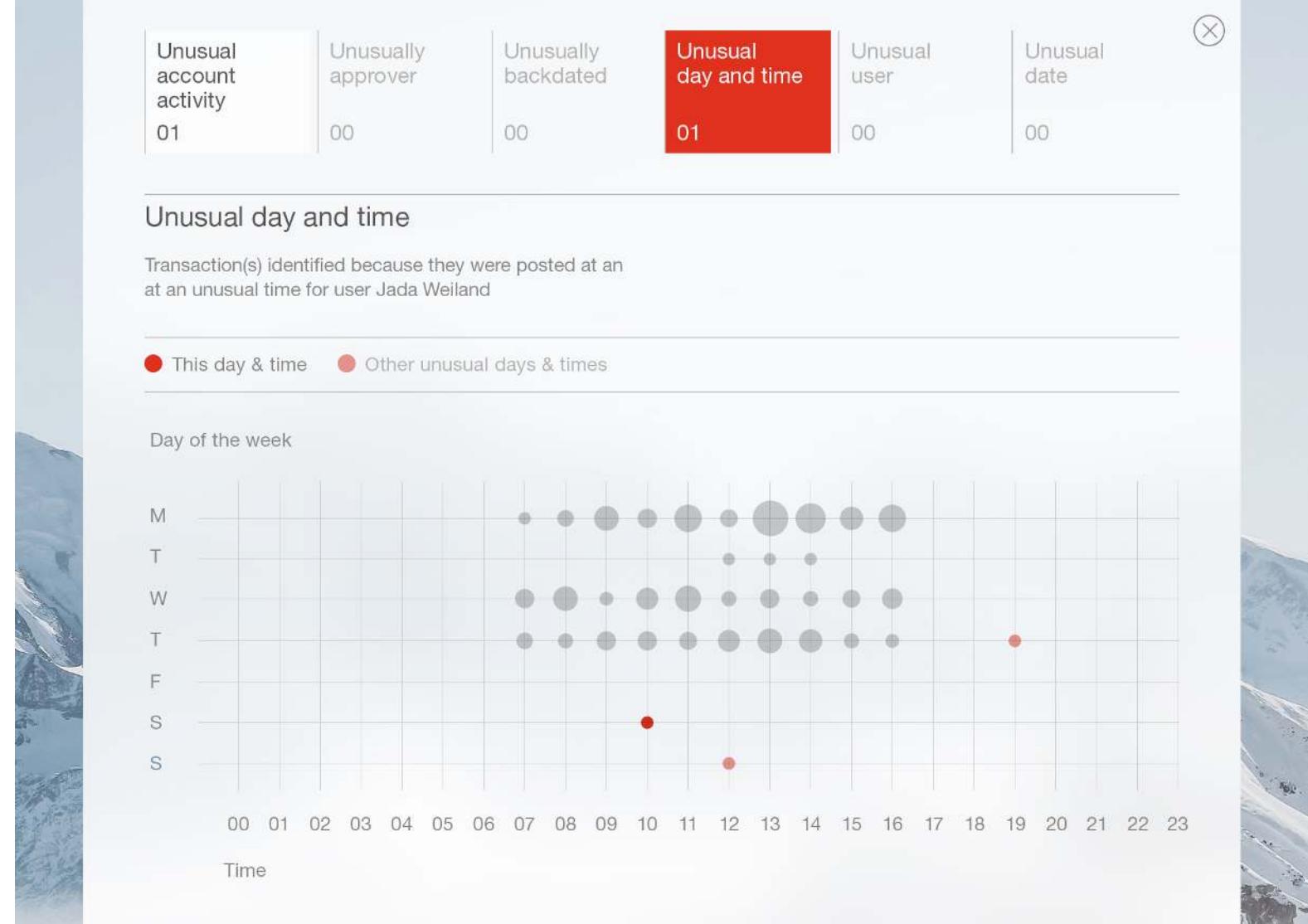
In this example, a user has posted a journal at a time unusual for them, that also contains an account combination unusual for the company.

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