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CASE STUDY

Tracing Fraudulent Applications within Salesforce

Using data modeling to successfully extract, transform, analyze and then correlate millions of data points against each other. Systematically model data to detect anomalies in with grant applications.

In this audit, a suspicion of collusion between recipients of grants was suspected. The project mandate provided was to conduct a detailed analysis of all the applications submitted to the Salesforce system.

Changelogs were not enabled but a small aspect of the analysis was the examination of timestamps of the various stages of the approval and review workflow process.

Problem

- A critical component was the comparison of more than 400 text fields against all of the other text fields in the database or more than 1500 applications.
- The project revealed 15 valid audit points that were material in nature and were tabled for follow-up and investigation

Solution

A once-off data extract was conducted from Salesforce. The raw tables were scripted and transformed into problem specific data models to answer specific audit questions. For text analysis, key words were identified and a multi-loop script mined each text field against the larger set of data. An output score for each field was generated and after processing, the results with the highest scores were manually checked against each other.

Outputs of the script resulted in a set of applications that contained clear signatures of coming from the same hand, and thus collusion between applicants.

Stakeholders

Donors and the Board of Directors

Stakeholders aims

The client was trying to obtain confidence in the business processes and wanted to ensure that full compliance to strict governance policies were adhered to.

Result

A detailed forensic report was compiled with detailed examples and data extracts from the source tables to demonstrate this. The report identified several anomalies and also recommended steps to enhance the overall data flow and integrity in the business.

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About Pomerol

We create and deliver meaningful Data-Driven Business Focused Solutions & Services. We've been operating in Data Analytics and Intelligence Reporting for over 6 years within Pomerol and our Partners have a cumulative 100 years in Global Experience. Pomerol partners with our clients to optimise the intersect between changing business demands, technological progress and sustainable business growth.

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