IMPETUS

Your First Step Towards a Modern Big Data Warehouse

Workload Assessment

Workload Assessment is the first step in the journey to a modern big data warehouse. A comprehensive Assessment is imperative to identify database workloads, users, and applications for offloading. The Impetus Workload Transformation solution identifies patterns in workloads and recommends offloadable candidates to transform them to a modern big data environment – automagically.

Three Reasons Why Assessment is Critical

Ever-increasing data volumes are fast outgrowing existing data warehouses. While offloading data and processing to a big data environment would remediate these challenges, knowing where to start lays the foundation for successful data warehouse modernization. Let's dig deeper and find out why Assessment is critical to your EDW migration strategy.

1

Identifying the starting point for your transformation

Every successful transformation starts with identifying the ideal transformation candidates. An automated Assessment helps recognize the right workloads before offloading them to a cost-saving storage and processing platform. The workloads could include technical entities, processes, applications, or even business users that may impair the system's resources, trigger higher costs, or consume premium EDW capacity.

2

Prioritizing the workloads for transformation

With the right workloads identified, the user has the flexibility and control to prioritize them for transformation. For instance, the user can select and prioritize business-critical workloads such as queries most frequently used across a variety of applications, queries utilizing different schemas, and more. This helps provide visibility to either re-engineer or transform as-is some of the old apps, whose knowledge might be restricted to a handful of people in the enterprise. These are usually the ideal candidates to be offloaded.

3

Laying the foundation for an optimized big data environment

Once prioritized, the optimized workloads would be ready for algorithmic and statistical analytics. These workloads would comply with the specific standards of your big data platform (broad analytics capabilities, business continuity, interoperability, etc.) and have repeatable business value.

Here's how Impetus Assessment would help achieve this automagically:

Three ways Assessment optimizes workloads for a big data environment:

1
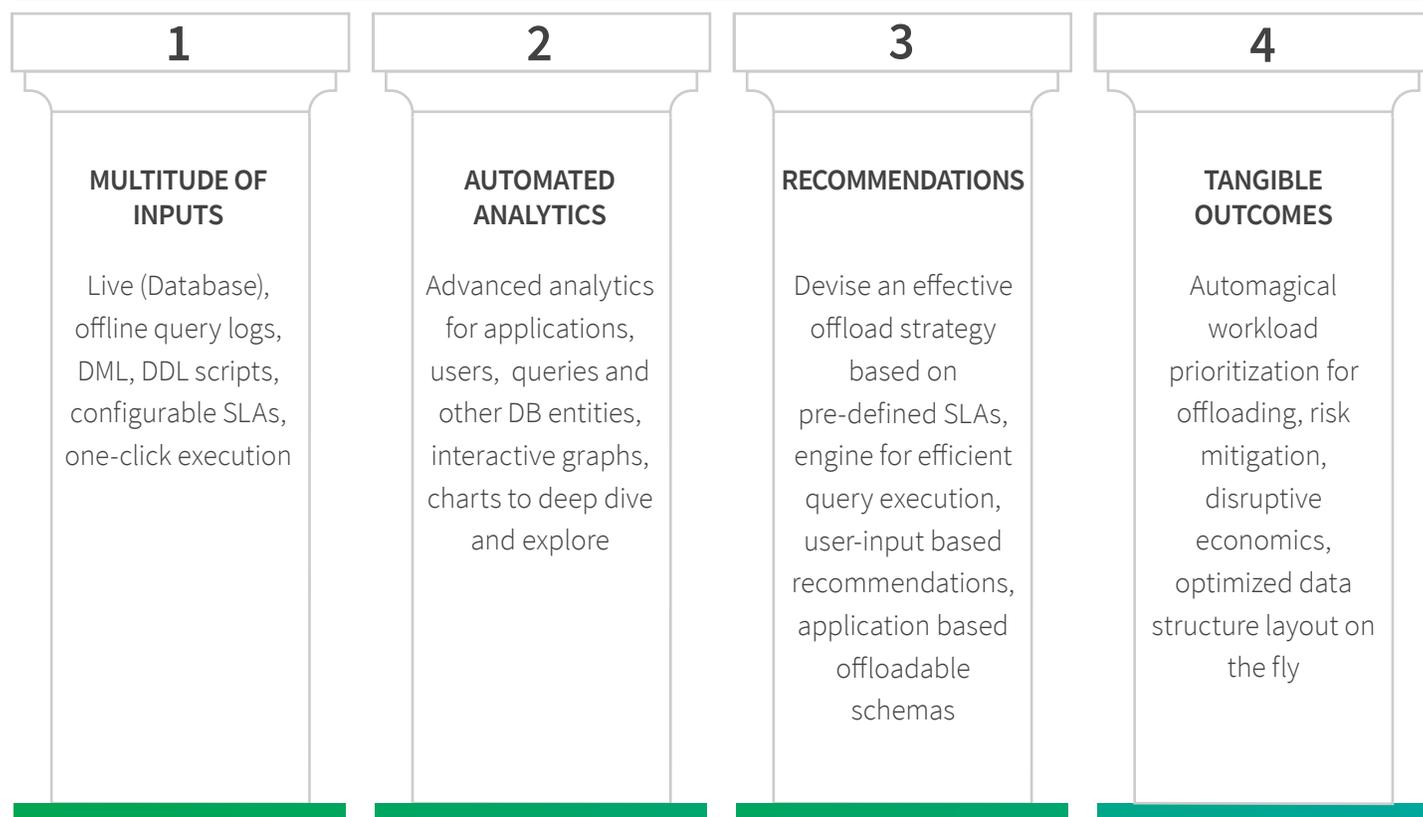Recommending queries that are most suited to run as HQL, Spark SQL, or both

2
Remodeling the data structure layout on the fly while migrating

3
Recommending all schemas requiring offload for specific applications

Four Pillars of Impetus Assessment Strategy

1
MULTITUDE OF INPUTS

Live (Database), offline query logs, DML, DDL scripts, configurable SLAs, one-click execution

2
AUTOMATED ANALYTICS

Advanced analytics for applications, users, queries and other DB entities, interactive graphs, charts to deep dive and explore

3
RECOMMENDATIONS

Devise an effective offload strategy based on pre-defined SLAs, engine for efficient query execution, user-input based recommendations, application based offloadable schemas

4
TANGIBLE OUTCOMES

Automagical workload prioritization for offloading, risk mitigation, disruptive economics, optimized data structure layout on the fly

Proven Effectiveness of Impetus Workload Transformation

We have collaborated with many Fortune 500 companies migrating their EDW workloads to an on-premise or cloud-based big data platform. Often, this involves a "cloud-first" strategy. Our solution provides rich visualization metrics for EDW capacity planning, ROI calculation, and platform sizing at the destination side. Across industries and verticals, our solution has empowered organizations to seamlessly and automagically execute their EDW offload strategies.

The following case studies elucidate the effectiveness of the Impetus Workload Transformation solution:

Helped a Telecommunications Giant Identify 4000 Resource-Intensive Queries

Provided Recommendations on:

- Expensive workloads to be offloaded to big data environment

- Complex queries that can be planned for optimization

- Unused and rarely used historical data

- Resource-consuming applications

Helped a Pharmacy Chain Identify 800 Dormant Tables and Recommended the Spark SQL Execution Engine

Analyses and Insights for:

- Workload prioritization for offloading

- Determining the most efficient big data query engine

- Expensive user activity

- Dormant data that isn't actively used but must be maintained

- Statement types, query constructs

Kick Off Your EDW Offload with a Data-Driven Assessment

Set a definitive direction for your EDW modernization and build a robust foundation for the data-driven future.

Positioned strategically and serving hundreds of customers globally, the Impetus Workload Transformation solution offers a proven and repeatable framework with lots of extensible and customizable options. Leverage this 100% enterprise-ready tool to optimize and operationalize your modern big data warehouse.

To learn more about the Impetus Workload Transformationsolution, reach us at inquiry@impetus.com.

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