# Customer Case Study

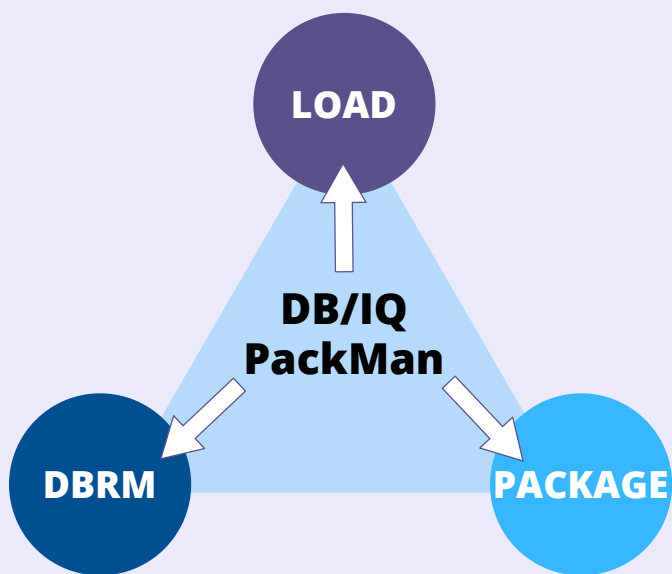# DB/IQ Package Management

**insoft** Infotel Software

## Helping a global IT service provider clean up their Db2 Catalog to reduce time to execute backups and REORGs and improve user experience
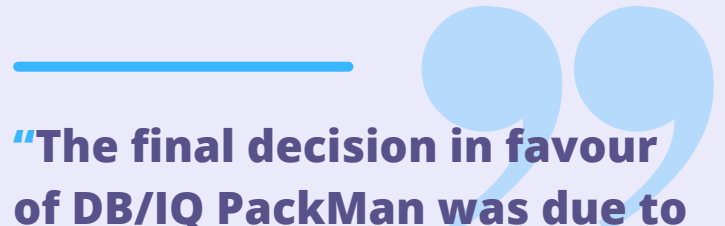
### ABOUT THE COMPANY

This global IT service provider operates more than 30 data centers spread across the globe, offering high-speed processing and the greatest possible level of security for data. Its national and international clients include many leading multi-national organizations and the company employs approximately 40,000 people around the world. DB/IQ Package Management (PackMan) was deployed at a global finance client site.

> "The final decision in favour of DB/IQ PackMan was due to its wide range of functions which fully cover our requirements in a very complex environment."
>
> *DBA at leading global IT service provider*

**LOAD**

**DB/IQ PackMan**

**DBRM**          **PACKAGE**

**Insoft Infotel DB/IQ PackMan can help clean and declutter you Db2 Catalog in multiple areas of the SQL programming life cycle.**

### CUSTOMER CHALLENGE

Across the client's enterprise, the IT services provider had realized that when just 100 of their developers compiled programs 10 times a day, they were creating at least 5,000 package versions every week! At BIND with EXPLAIN(YES), rows were added for every explainable statement in the package being bound. The result was an inundated Db2 Catalog creating much longer-than-expected backups and REORGs. With so many developers programming modules, their Db2 Catalog was becoming overly cluttered.

## INSOFT INFOTEL SOLUTION

DB/IQ PackMan helped save a significant amount of time across their team of more than 1,000 mainframe developers. Whereas before, when a programmer would create a new program module, and have other programmers make additions as well, this led to a variety of versioning issues that further cluttered their Db2 Catalog. The cleanup by PackMan resulted in a more streamlined Db2 and led to a faster backup and REORG process.

Additionally, after a well-known change management system was implemented, load library concatenation caused 25,000 new control-structure database objects (packages) to be bound in each of the 80+ production Db2 subsystems. The combining of the libraries further complicated the Db2 Catalog and DB/IQ PackMan was leveraged to locate the unnecessary table data and remove it.

## CUSTOMER OBJECTIVES

The Agile methodology often emphasizes that each test or modification of an application be kept in a load.level library. These libraries are then concatenated at a runtime of over 400k of MIPs' CPU power. Ideally, the matching module for each executed package is then identified. However, this approach does not address which package versions were in production and which were no longer required. DB/IQ PackMan includes version control, to enable tracking of the most up-to-date code to ensure that the correct module versions are put into production.

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## BENEFITS REALIZED

In a short period of time, DB/IQ PackMan found hundreds of thousands of rows of data could be removed. At first, there was skepticism from the client who was worried that in removing so much Catalog data, programs in production would crash. But PackMan was accurate in determining what was needed for apps in production and operations continued without disruption.

Additionally, due to the naming conventions used for the client's package versioning, the client recognized that thousands of package versions could be freed every day from development subsystems.

Ultimately, the IT services provider was relieved that no errors occurred, and that DB/IQ PackMan could be trusted to delete only the packages that were not linked to in-production apps.

The entirety of the effort helped improve the end-user experience, cut down on time to execute backups and REORGs and reduced unplanned budget churn for the IT department.

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