

esProc

computing engine

Agile Data Computing Engine

-Issued by Raqsoft

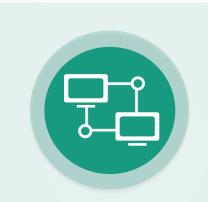


What's esProc?





Report Data Source



JAVA Computing Layer



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what does esproc solve?



Report Data Source

- The SQL for preparing data for reports is several K bytes long, which is difficult to write and more difficult to maintain.
- For large amount of data, report presentation is too slow, sometimes overflow happens. Users often complain.

. . .

JAVA Computing Layer

 Java computing is too cumbersome. It takes hundreds of lines to write a simple filter grouping.

 If the algorithm logic is changed, the whole application will be restarted and it will be difficult to provide continuous service.

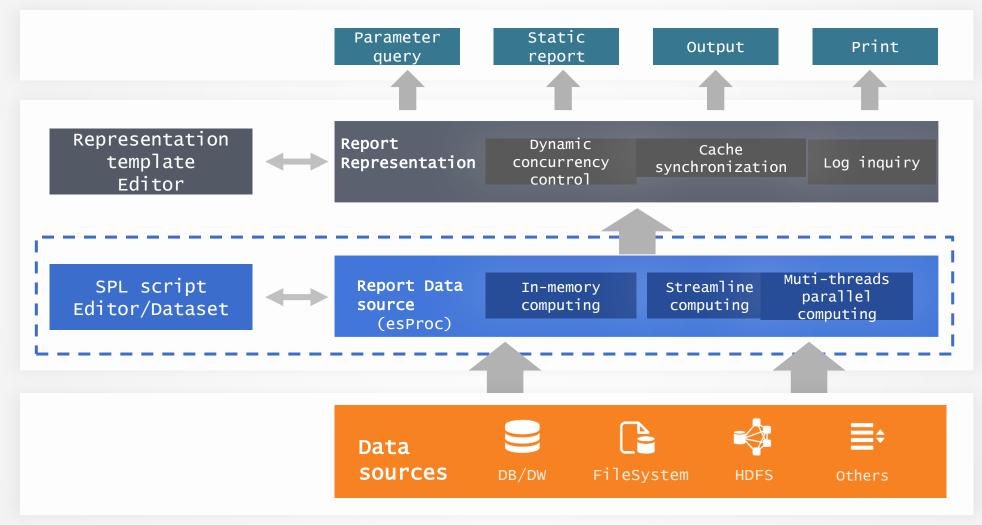
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 ✓ A large number of TXT/CSV/XLS have to be processed, and SQL is NOT available. Everything is very complicated.

SQL is not easy to write,
 Python is also difficult to
 learn, it always requires
 professional programmers to
 do, and the cost is high.

Report data source

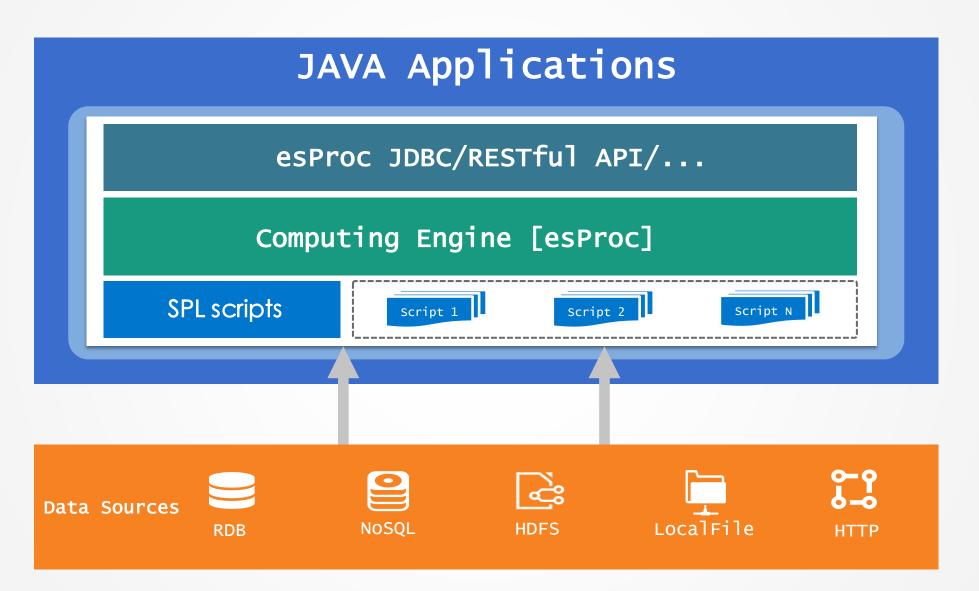




*For details: http://c.raqsoft.com/article/1568252302676

JAVA Computing Layer

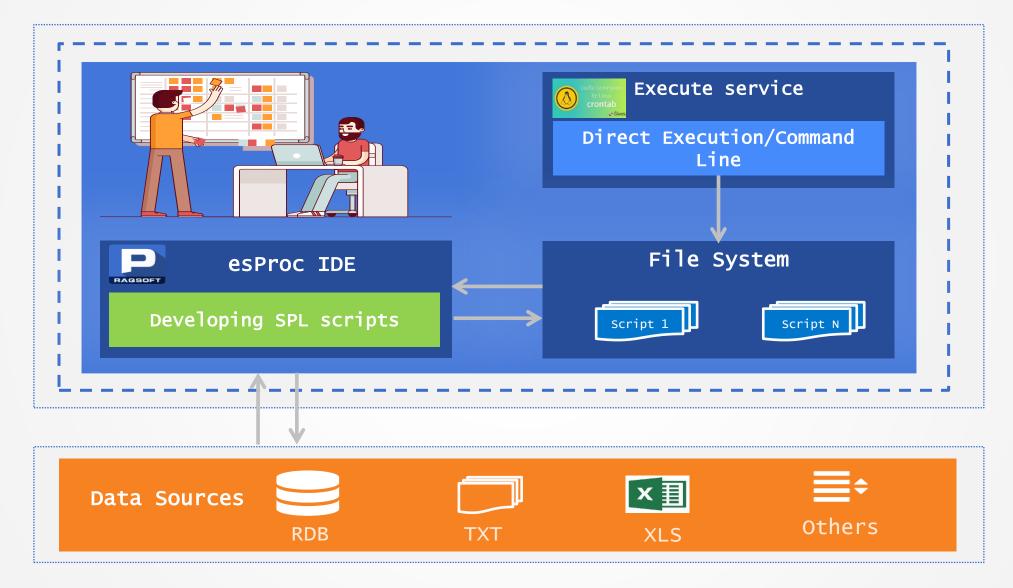




*For details: <u>http://c.raqsoft.com/article/1568252093074</u>

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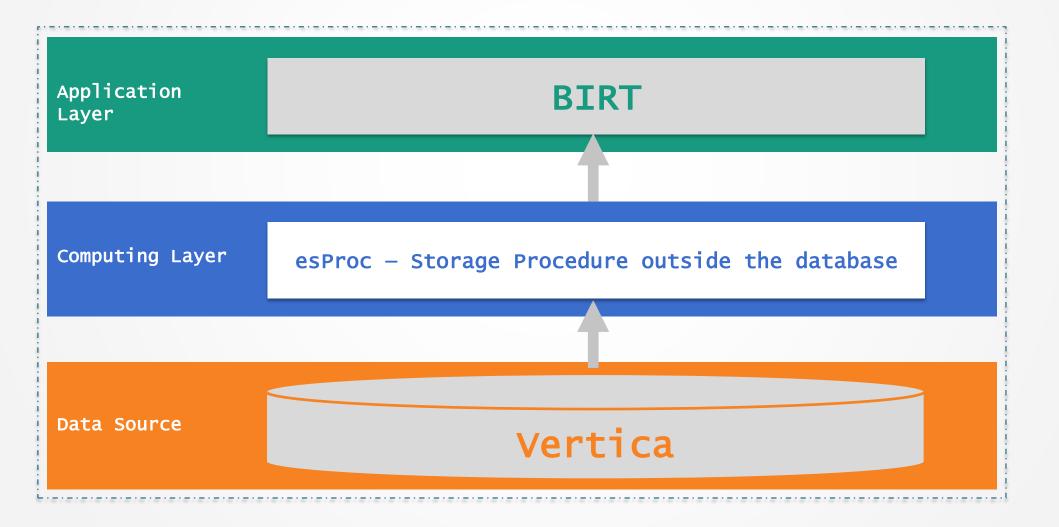


*For details: http://c.raqsoft.com/article/1568252469105

An Insurance Company - Storage Procedures outside the database



Vertica does not support stored procedures. Complex business logic can only be written in Java, which is cumbersome and difficult to maintain.



Application effect

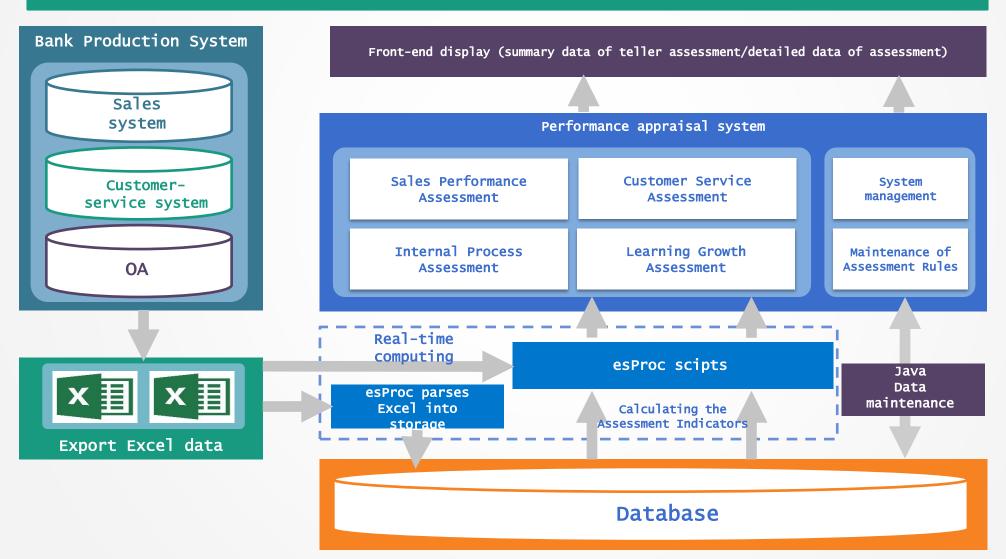


"The best use for us is to pass parameters to the Vertica database." User Evaluation Each cell becomes a data array that are easy to use, compare and manipulate. It is very logical and you have made it user friendly. " FLEX GROUP Francais Welcome to the secure zone Make Vertica support stored procedures outside the database. Application Welcome to Flexgroup's secure zone Information Effect Username 3664 de la Montagne The procedural algorithm is simple Montréal, (Québec) Password Canada H3G 2A8 Login and friendly to implement. 514 842-8791 800 463-3868 BI (EsProc) powered by : SSL security : 514 842-7761 Contactez-nous BIRT data preparation is simple and RAQSOFT Innovation Makes Progress efficient. © 2018 Flexaroup, All rights reserved.

A Bank-Computing Middleware



There are 44 kinds of Excel, which are parsed by Java and stored in database. The development cycle is long and hard-coding is difficult.



Application effect



Reducing Development Cost

All 44 kinds of Excel parses have been reduced from 32 person/day to 6 person/day

Improving Development Efficiency

Each Excel parsing code volume changes from 100 lines to 3 lines

Reducing maintenance cost

Except for the short code size and easy maintenance, the hot deployment of the script takes effect as soon as the modification is made.

Contrast indicators	JAVA programming	esProc (SPL)	Advantage
Code Quantity	4400 lines	132 lines	33 times
workload	32person/day	6person/day	5 times
Optimizable	None	Easy	Qualitative change
Coupling	High	Low	Modularization and Tooling
Maintainability	Poor	Good	Easy to manage, hot switching

*Case details: <u>http://c.raqsoft.com.cn/article/1560728208862</u>

How does esproc do it?



Openness Independent of database

computing power = lighter architecture



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Language New syntax adapts to complex Procedure computing = Codes are much simpler



Performance

Easy to implement high performance algorithms and parallelism

= Stronger computing power



Application

Standard Interface for Embedded Integration

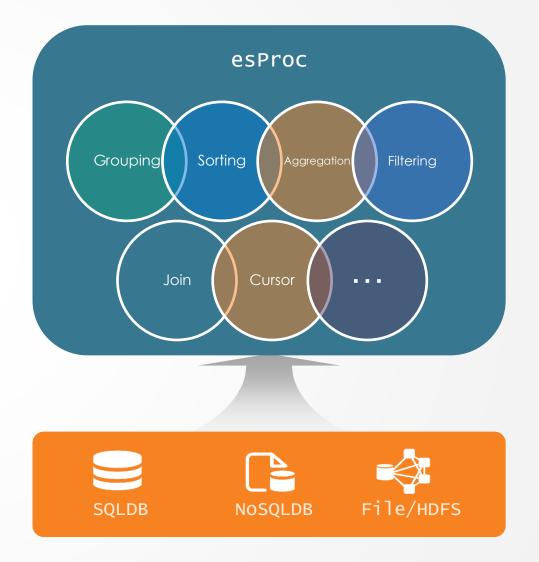
= Application deployment is easier

Independent Computing Engine



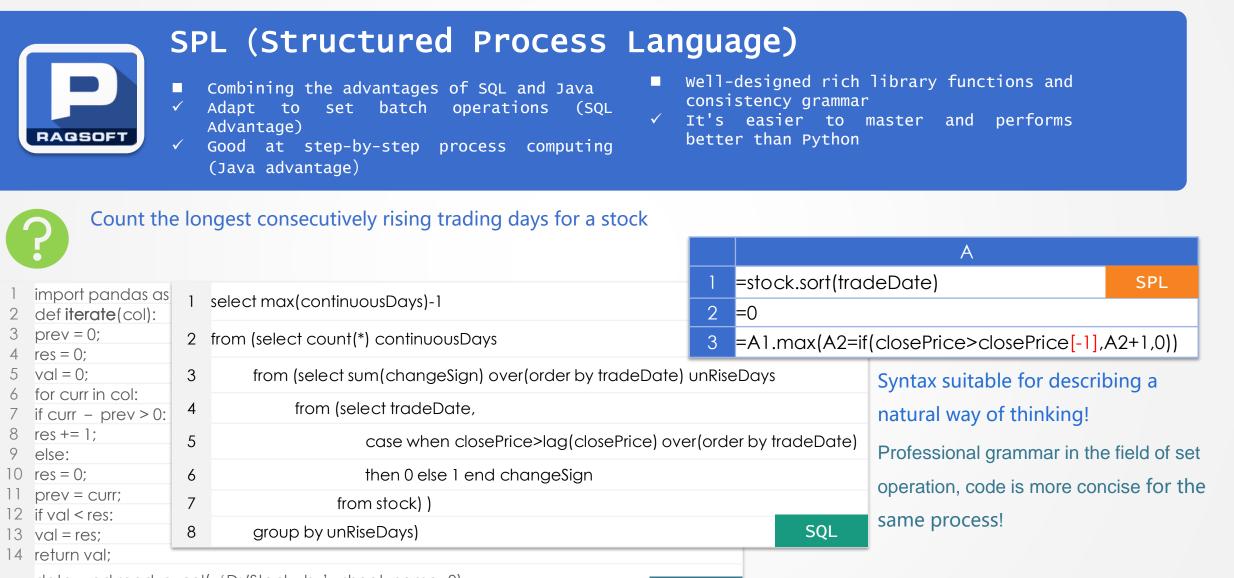
It does not depend on the computing power of the database and has a complete agile syntax system.

No database is needed in the computing process It's not converted to SQL for database execution. Computing can be performed for any data source.



Agile Programming Language



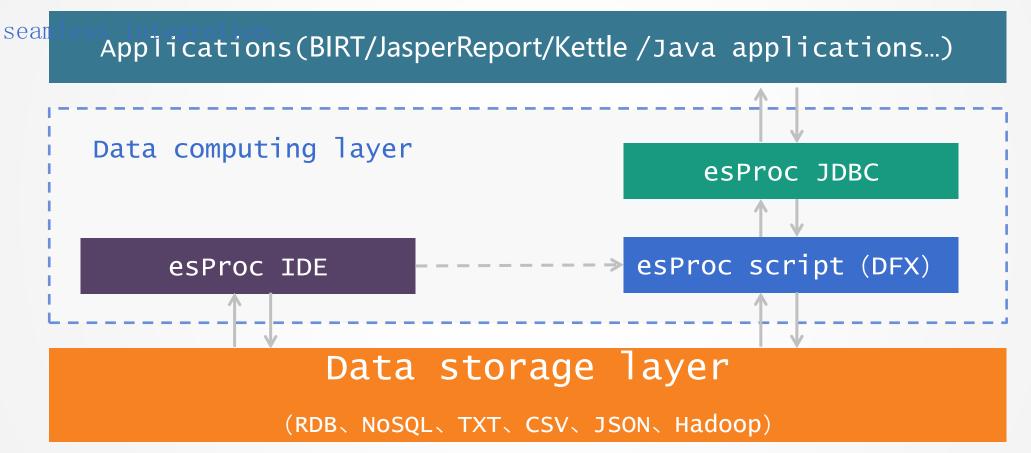


data = pd.read_excel('D:/Stock.xlsx' ,sheet_name=0).
sort_values('tradeDate').groupby('Company')['closePrice'].apply(iterate);

Python



esProc is developed in JAVA and provides standard application interfaces for



Innovation makes progress!



各设备故障分析







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