



jhaKnow™

Data Warehousing, Analysis, and Reporting

If you're struggling to efficiently gather your business-critical reports from data silos scattered across your enterprise, consider jhaKnow. This data warehousing solution can dramatically improve your operations by delivering to your desktop the strategic and operational information you want, when you want it. With jhaKnow, you spend less time querying and validating data, and more time making intelligent decisions that support your business objectives and maximize profitability potential.

Data Warehousing, Analysis, and Reporting Platform

BUSINESS VALUE

- Make Money
- Save Money
- Improve Operations

COMPATIBILITY

- SilverLake System®

IT WORKS LIKE THIS ...

jhaKnow is Jack Henry Banking's data warehousing, analysis, and reporting solution for SilverLake System banks. At the core of *jhaKnow* is an enterprise data warehouse that performs the critical function of extracting source data from the different production systems, transforming it into consistent and reliable information, and then storing it for future use.

Built on Microsoft's industry-standard SQL Server tools, the *jhaKnow* data warehouse can be customized to meet bank-specific needs using resident SQL Server resources or Jack Henry Banking's resources. A data warehouse is not "one size fits all," and customization enables banks to get the most benefit from *jhaKnow*. This solution is pre-configured with data mappings to more than 100 of the most commonly used SilverLake tables and a growing number of Jack Henry Banking's complementary products. *jhaKnow* provides a jump start into building a financial data warehouse, without the expense and time associated with traditional data warehouse consulting engagements.

CUSTOMIZABLE DATA ...

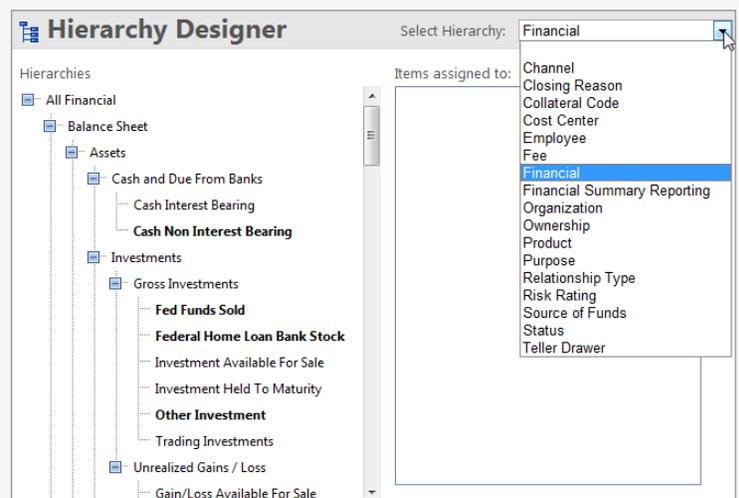
One of the most powerful and useful components of *jhaKnow* is its ability to conform to bank operations. This is accomplished through the use of hierarchies and value ranges. With *jhaKnow*'s hierarchies, banks tell the system how the business is structured in terms of products, financials, and 14 additional categories. With value ranges, banks define how they want to group and report on numerical information frequently used in reporting – such as days past due, customer tenure, and interest rates.

Hierarchies and value ranges can easily be added to reports so the information being presented is always using bank standards. When standards change, simply modify the hierarchies and value ranges in *jhaKnow* and the reports automatically adapt to the new structure with no complex code modifications required.

REPORTING MADE SIMPLE ...

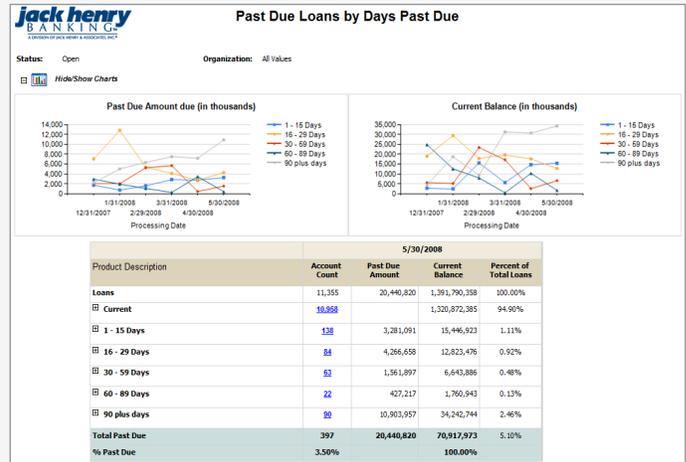
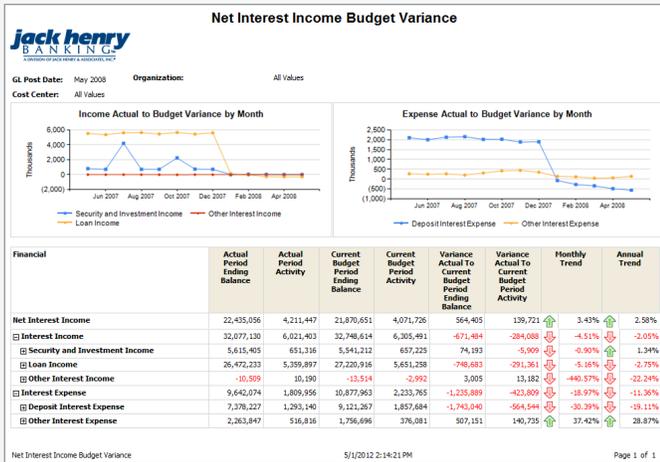
Reports are key to running day-to-day bank operations, from the tactical and operational reports that come from the SilverLake System, to the strategic reports management needs to guide the bank to higher profits and lower risk. *jhaKnow* is designed to pick up where tactical source reports fall short, providing the reporting capabilities mid-level and executive management needs.

During implementation, *jhaKnow* is installed with a set of pre-built reports, tailored to work with bank-defined hierarchies. Bank



staff is trained on the fundamentals of creating reports, learning how to create dashboard reports, drill-downs, and hyperlinks to detailed content using *jhaKnow's* reporting tool. Exporting reports to Excel, CSV, PDF, Word, XML or MHTML files means managers can still perform what-if scenarios using their favorite tools, or compile several graphic-rich reports into a packaged set for the bank's board. With report subscriptions, managers don't need to access *jhaKnow* to view critical business reports; they can be automatically generated and sent to a designated email inbox.

To make custom reporting easy, *jhaKnow* provides access to the physical tables in the data warehouse and also offers special report-friendly views, using easily understandable English names for the fields. *jhaKnow* has even made it easy to join tables together using specially named fields that are matched up. Creating complex analytical reports from disparate information is easier than ever.



Past Due Loan Account Detail

Jack Henry BANKING

Status: Open Range: 1 - 15 Days Process Date: 5/30/2008 Product: Loans Organization: All Organization

Account Number	Customer Name	Status	Maturity Date	Part ID	Days Past Due	Book Balance	Actual Balance	Past Due Amount	Payment Amount	Officer
256090741338	Lucien O'Waden	Open	04/29/2009	15	15	44,400	-8,578	190	190	Domenic O'Derbacher
261790130038	Columbus O'Shwengel	Open	04/12/2011	15	15	116,515	127,479	734	734	Clark O'Leary
261808735769	Louise O'Sonelli	Matured	05/23/2008	15	15	26,344	28,824	26,338	129	Clark O'Leary
261812889469	Claud O'Pantone	Open	01/28/2009	15	15	25,261	27,638	123	123	Clark O'Leary
261828309369	Woodrow O'Leary	Open	06/15/2010	15	15	130,367	142,854	111	111	Domenic O'Derbacher
261830647769	Carlos O'Pascador	Open	12/23/2011	15	15	353,280	200,526	784	784	Domenic O'Derbacher
283541757107	US Medphysiche	Matured	05/20/2008	10	10	0	0	0	0	Cynthia O'Doherty
285689210569	AcSiegropac	Matured	05/18/2008	12	12	1,655,000	1,274,627	1,172,902	0	Crut O'Dore
28569267469	Petaar	Matured	05/15/2008	15	15	143,481	156,983	145,862	0	Ermett O'Dalmeyer
28570252169	Craig O'Idobry	Matured	05/15/2008	15	15	0	0	0	0	Cynthia O'Doherty
42940694069	Leonardo O'Sprosty	Non-Accrual	12/16/2008	14	14	0	0	179	307	Clark O'Leary
429461572914	Carol O'Theman	Open	05/15/2010	15	15	20,304	22,215	962	874	Clark O'Leary
429467727169	Alvin O'Boerhoff	Open	04/20/2010	10	10	8,330	9,113	390	372	Domenic O'Derbacher
261811467538	Leonardo O'Githens	Open	01/10/2013	15	15	98,658	107,942	583	583	Clark O'Leary
285689553107	Columbus O'Massenden	Open	10/15/2009	15	15	63,141	69,083	1,575	1,500	Crut O'Dore
261807143138	Lucien O'Staack	Open	04/24/2013	15	15	12,554	13,736	25	25	Clark O'Leary

Portal Security Manager

Select a Security Role: **Executive**

- Accounting Manager
- Accounting Dept
- Branch Manager
- Branch Staff
- Collection Manager
- Collection Dept
- Lending Manager
- Lending Dept
- Operations Manager
- Operations Dept
- Marketing Manager
- Marketing Dept
- Data Quality Manager
- Data Quality Staff
- Portal Reader

Grant Access to Objects:

Object Menus	View	Execute	Modify
Executive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Customer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deposits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All Products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Prod & Serv	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Administrative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ROLE-SPECIFIC SECURITY ...

jhaKnow uses role-based security throughout the application, ensuring executives and product managers are able to view the reports they need without accessing the technical functions of the system. Integrated into Microsoft's security model, banks installing *jhaKnow* in-house also enjoy a single sign-on experience that never prompts users for credentials, but restricts them to permitted areas and objects.

A PORTAL THAT'S EASY TO USE AND ADMINISTER ...

jhaKnow provides a portal that serves all levels of bank staff with the reports and functionality they need. The portal allows users to define the set of reports they most frequently use as "favorites." These favorites are then readily accessible through the report menu, making it easy to navigate to them without searching through hundreds of choices. The portal is also where system administrators set up and maintain security permissions, report access, and application behavior.

THIRD-PARTY COMPATIBILITY ...

jhaKnow is compatible with any application that can read SQL Server tables, meaning banks can choose tools from the marketplace they'd prefer for analytical presentations and report writing. With *jhaKnow*, banks can expand the overall benefit and return on their investment by adding additional functionality, such as support for mobile devices. There are many great products available in the marketplace, and they all rely on having a vast supply of quality, integrated data. *jhaKnow* can be the supplier of that data, making it an integral and trusted component to other management systems.

WHAT IT DOES:

- Extracts, transforms, and stores data from *Jha* and third-party data sources.
- Stores and manages data snapshots based on banks' data retention goals.
- Defines and uses bank-defined hierarchies and value ranges.
- Supports the creation of reports through the Report Builder tool.
- Enforces role-based security to reports and system functionality.
- Provides special data views that simplify field selection and table joins.
- Supports the automatic delivery of report content through subscriptions.
- Supports exporting of reports to PDF, Excel, CSV, MHTML, XML, TIFF, and Word formats.
- Accommodates annual modifications to SilverLake and select complementary system data in the *jhaKnow* system tables.
- Provides pre-configured data mapping and logic for SilverLake and select Jack Henry Banking complementary products.

WHAT IT DOES FOR YOU:

- Helps ensure executives, business analysts, and operational staff receive the information they need, when they need it, and in the desired format they need it in.
- Allows the trending of historical information to identify opportunities and to help forecast future direction.
- Significantly reduces time producing standard bank reports.
- Assures data quality and validity of management and operational reports.
- Delivers all tools needed to build, maintain, and report from a data warehouse in one application from a single vendor using industry-standard Microsoft tools.
- Supports customization by the bank or through contracted services with *Jha*.
- Notifies administrators when key data is newly introduced to the system and needs to be mapped so information in reports remains accurate.
- Tracks system usage and non-usage, helping to identify individuals needing assistance or reports that may need performance tuning.

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