ARCHIMEDES

An Open Source Utility Repository Analysis and Persistence For Versata 5.5.x From





Logical Data Integrity testing by Euclid from



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Archimedes for Versata 5.5.x Repository Analysis

Archimedes creates statistical analysis, metrics, and detailed reports from any Versata 5.5.x repository.

MetaRepos- is a Versata 5.5.x application that allows you to version and persist your XML metadata (that is, your business rules) to the Logic Server.

Euclid – from Integrity Logic is a data-testing tool that can analyze, measure, and report logical data integrity errors.

Archimedes with the MetaRepos provides project managers:

- 1) Archimedes provides **metrics and statistics** on your repository how many business objects, attributes, business rules, user-defined methods, Java/HTML pages as well as the % generated versus user defined lines of code.
- 2) The HTML **Analysis report** that gives a detail of attributes, rules, relationships, methods, events, constraints, and a used-by cross-reference on a single printable HTML page. This HTML page can also be loaded into an MS Excel Spreadsheet for further refinements.
- 3) Archimedes includes a Versata application (**MetaRepos**) which will persist the content of a single analysis run. Load the **MetaRepos** into your Versata Studio© and deploy the business objects and data model to your DBMS.
- 4) Once persisted, several sample Java and HTML applications that will allow you to query, view, and drill-down into your meta-data and business rules.
- 5) The **MetaRepos** has a built in rules-based **differencing** engine to compare 2 versions of the same repository. How many of each object type (DataObject, Attribute, QueryObject, Application, Form) were added, removed, or changed between versions?
- 6) The **MetaRepos** can extend your runtime application by adding new attributes and semantic that can be accessed at runtime by your Versata application (an extensible meta-model with runtime features).
- 7) Now that the meta-data is persisted into your DBMS, use your favorite report writer to create custom rules reports.
- 8) Archimedes has a sample transformation engine to generate output to files (e.g. code generator and meta-data report writer). One new Transformation is for Euclid a Logical Data Integrity testing tool from Integrity Logic.

Source Forge Location: http://sourceforge.net/projects/metarepos/ Yahoo group: http://groups.yahoo.com/group/versatausersgroup/ Euclid from Integrity Logic: http://www.integritylogic.com

Archimedes Installation

Download and unzip the contents of Archimedes.zip to a new directory called Archimedes. Remember to set the option to use folder names.



Configuration

Before you start, you will need to edit the Archimedes.bat file. This file contains the classpath information for both the Java JDK location and the location of your WebSphere and Versata directories. You can also edit the Archimedes.properties file – this controls the persistence to the TLE. You can use the same JDK from the Versata.

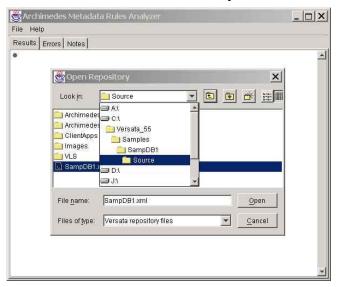
Running Archimedes

When you start Archimedes (click on the Archimedes.bat file), you should see a Java application window that looks like this:

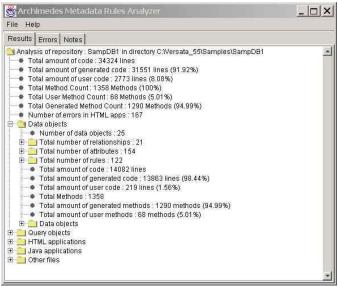


Open a Repository

Select the File/Open Repository menu option. Navigate to the location of your current Versata 5.5.x repository. The analysis will take a minute or two (you can view the progress in the DOS window). Note: If you are running a prior version of Versata, you can always convert to Versata 5.5.x and run the analysis.



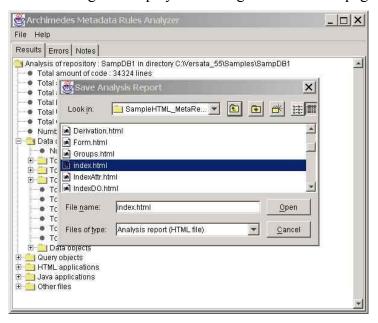
Once the analysis is completed, a series of statistic appear on the Results tab.



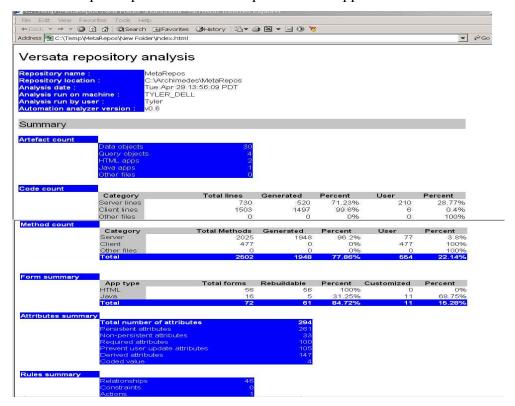
The statistics show counts and percentages of rules, methods, and lines of code for Data Objects, Applications, and Query Objects. All of this information can be persisted to a database using the MetaRepos application or printed to a series of HTML reports.

Save HTML Analysis Report

You can save these statistics and detailed contents to a series of HTML pages. Select the File/Save HTML Analysis report. Navigate to a new empty directory and save the root page as index.html. One feature is that these detailed HTML pages can be loaded in MS Excel for further editing and display formatting. Save the root page as **index.html**.

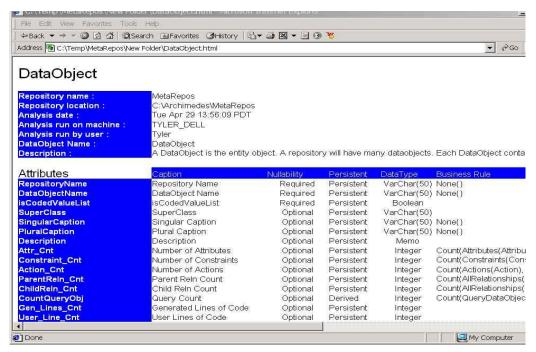


This is a Sample Report of the MetaRepos Versata Application.



Drill Down on Each Data Object

You can drill down into each Data Object and see a summary report including attributes, rules, events, constraints, relationships, used by, and user defined methods.

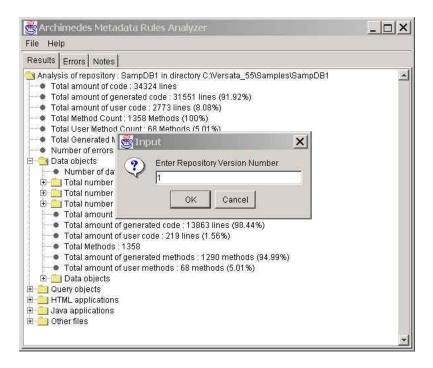


Note: This report can also be loaded in MS Excel for further formatting and refinement.

Persist to MetaRepos

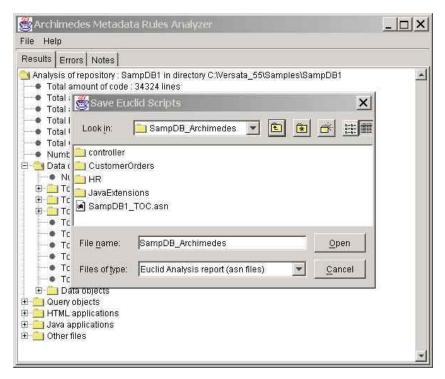
The persistence engine will store this collection of Versata rules under a specific version number. This version number can be used later to compare prior versions of the same repository to determine the changes between releases. (File/Save to VLS).

NOTE: Before you attempt to persist, you must deploy the MetaRepos application to a Logic Server and to a database.



Generate Euclid Scripts

Select the menu option File/Generate Euclid Scripts. Navigate to a new empty directory and press OK. Archimedes will generate a series of scripts, which are imported into Euclid (a Data Integrity testing tool from Integrity Logic).



These scripts are organized into subdirectories that match your own file groups from Versata. A new directory called **controller** contains one file per data object. These control files are used to execute each script for the persistent business objects. Each business object has both a generated (<businessObj_GEN.asn>) and a user defined (<businessObj_USER.asn>) script. The main table of contents is found in the root directory in the file named: <yourrepository_TOC.asn>.

Take the Integrity Logic "Euclid" Challenge

Download Euclid from http://www.integritylogic.com. Please read the documentation provided with the product to understand how Euclid works.

1. Install and Configure Euclid

a) Download the latest trial version from http://www.integritylogic.com. You will need to edit the classpath for your own JDBC driver. This is found in:

<dir>:\Euclid\jakarta-tomcat-4.1.18\bin\EuclidClasspath.bat

b) To start Euclid – launch a DOS window or click

<dir>:\Euclid\StartEuclid.bat

c) Then launch a browser and type the URL:

http://localhost:8789/Euclid/src/Login.jsp

2. Logon to Euclid

From the main Euclid page, press the login button.



3. Create a new Project

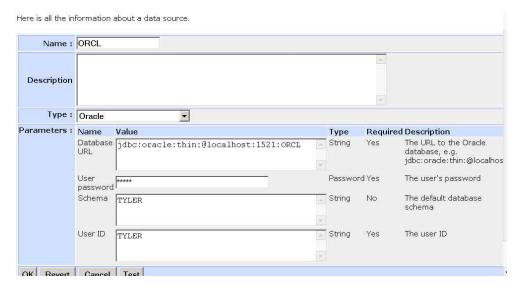
Create a new project by pressing the New Project button.



4. Create new Data Source

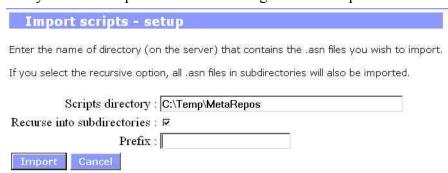
Create anew Data source to your existing database. You can compare data between multiple databases.





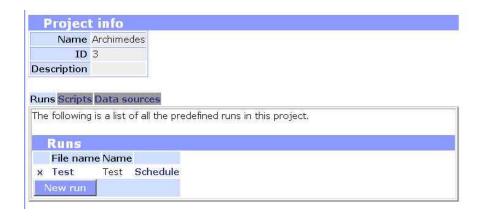
5. Import Archimedes Scripts

The navigation bar on the left has an Import hyperlink within the project. This is where you would import the Archimedes generated scripts.



6. Create new Run

Create a new run by selecting the Run tab and pressing New run.

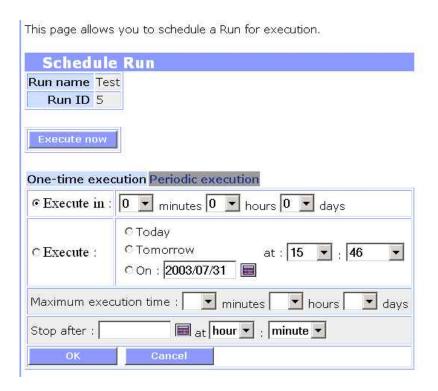


You can select one or more of the scripts from the controller director or run all the tables using the <yourreposname TOC> script.



7. Schedule and Execute (press Execute Now)

Look for the execute now button to start the process of running the scripts against your database.

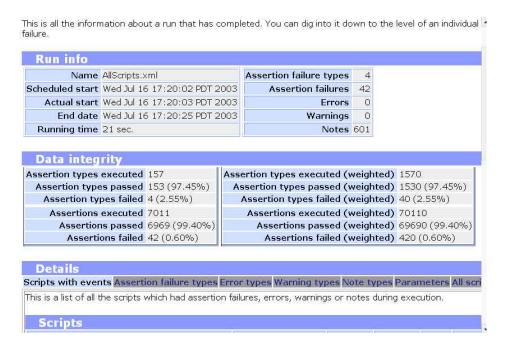


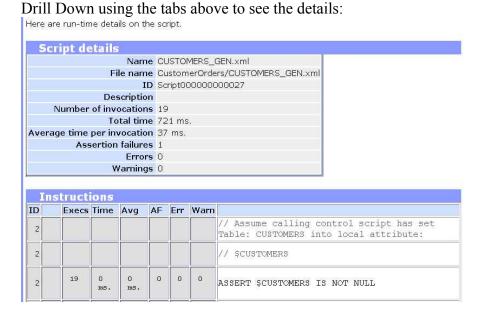
8. Analyze Results

Once all the processing is complete, you can view the results (or press the Run History from the left side navigation bar). These assertion failures or errors can be viewed by drilling down using the Details tab.

This is a list of all the logs for all the runs that have been executed and not deleted. To get more information on a particular run, click on its start date.







You can drill down on the Error or Assertion to see exactly why the error or rule failure occurred. This helps identify the Data Object, the Attribute, and the value(s) that are incorrect.

Changing Scripts to fix Errors or modify Rules

Remember, the scripts generated by Archimedes attempt to render every business rule as a test. Sometimes these rules cannot be executed or will be rendered incorrectly. Here are some common problems:

- All Constraints are commented out and moved to the USER defined scripts. You
 can decide to modify the Reject When or Accept When rule expressed as an
 assertion.
- All Formula are moved to the USER defined scripts and commented out. Simply because they may contain IF/Then statements, comments, or Java methods.
- Any WHERE clause that contains a Java method, comment, or has a Boolean (True/False) is commented out. These can be quickly changed and retested.
- Sometimes recursive self relationships cause the script to generate an SQL statement that cannot be resolved. This will generate an error. We suggest you fix the SQL or comment out the instruction.
- Duplicate tests on coded values when a relationship is also present. This will cause two identical instructions to be generated.
- Coded Value lists that have two or more primary keys will cause improper SQL to be generated (since we are trying to test one value). Simply comment out this instruction.

Versata repository analysis

Repository name:
Repository location:
C:\Versata_55\Samples\SampDB1
Analysis date:
Wed Jul 16 17:05:39 PDT 2003

Analysis run on machine:

Analysis run on machine:

Analysis run by user:

Automation analyzer version:

TYLER_DELL

Tyler

Tyler

v0.6

Summary

irteract count		
	Data objects	25
	Query objects	17
	HTML apps	29
	Java apps	32

Other files

Code count

Category	Total lines	Generated	Percent	User	Percent
Server lines	15703	15473	98.54%	230	1.46%
Client lines	16168	15098	93.38%	1070	6.62%
Other files	1713	0	0%	1713	100%
Total lines	33584	30571	91.03%	3013	8.97%

Method count

Category	Total Methods	Generated	Percent	User	Percent
Server Methods	1358	1290	94.99%	68	5.01%
Client	2036	394	19.35%	1642	80.65%
Other files	197	0	0%	197	100%
Total Methods	3591	1684	46.9%	1907	53.1%

Form summary

App type	Total forms	Rebuildable	Percent	Customized	Percent
HTML	172	114	66.28%	58	33.72%
Java	102	36	35.29%	66	64.71%
Total	274	150	54.74%	124	45.26%

Attributes summary

Total number of attributes	154
Persistent attributes	148
Non-persistent attributes	6
Required attributes	35
Prevent user update attributes	47
Derived attributes	68
Coded value	8

Rules summary

Relationships	21
Constraints	13
Actions	8
Sums	11
Counts	3
Parent replicates	7
Formulas	21
Defaults	26
Conditions	4
Coded values	8
Total rules	122

Data objects															
Name	Gen. Code User code	Constraints	Actions	Pers	. Attribs Non pers.	Required	Νοι	updateSu	ım Co	ountRep	licateFor	mulaDe	faultCor	nditionCod	led val
<u>CUSTOMERS</u>	1068	3	6	0	18	0	2	. 8	4	2	1	1	3	0	2
CUSTOMER_USER	316	1	0	0	3	0	0	0	0	0	0	0	0	0	0
<u>DEPARTMENT</u>	1019	41	2	0	11	0	1	5	1	1	0	2	3	1	0
<u>EMPLOYEES</u>	1404	80	1	3	15	2	4	3	1	0	0	4	2	2	1
EMPLOYEESAUDIT	474	1	0	0	7	0	2	4	0	0	2	2	2	0	0
<u>EMPLOYEESKILL</u>	374	4	0	0	3	0	2	0	0	0	0	0	0	0	0
<u>EMPLOYEESPENDING</u>	341	1	0	0	4	0	0	0	0	0	0	0	1	0	0
<u>ORDERITEM</u>	1051	1	0	0	8	1	3	5	0	0	3	2	1	0	0
<u>ORDERS</u>	1733	51	3	2	15	2	1	9	2	0	1	6	4	0	1
ORDER_IMAGES_MAP	245	1	0	0	2	0	0	0	0	0	0	0	0	0	0
<u>PART</u>	922	9	0	1	15	1	1	8	3	0	0	3	4	0	4
PARTSRECEIVED	546	13	1	1	6	0	5	1	0	0	0	1	3	0	0
<u>SECUREDATA</u>	258	1	0	0	3	0	1	0	0	0	0	0	0	0	0
<u>SKILL</u>	429	1	0	0	2	0	2	1	0	0	0	0	0	0	0
STATE_TAX_SCHEDULE	316	1	0	0	3	0	0	0	0	0	0	0	0	0	0
SYSTEM_SCALARS	275	1	0	0	3	0	0	1	0	0	0	0	0	1	0
<u>VALID_AUTO</u>	345	1	0	0	2	0	1	1	0	0	0	0	0	0	0
VALID_CREDIT	354	1	0	0	3	0	1	0	0	0	0	0	1	0	0
VALID_EMPTYPE	412	1	0	0	2	0	2	0	0	0	0	0	0	0	0
VALID_EMPTYP_SKLS	362	1	0	0	2	0	0	0	0	0	0	0	0	0	0
VALID_MODELAUTO	395	1	0	0	2	0	2	0	0	0	0	0	0	0	0
VALID_PARTTYPE	271	1	0	0	3	0	0	1	0	0	0	0	0	0	0
VALID_STATE	328	1	0	1	2	0	2	0	0	0	0	0	0	0	0
VALID_UNIT	234	1	0	0	1	0	1	0	0	0	0	0	0	0	0
XDA_CUSTOMERS	391	1	0	0	13	0	2	0	0	0	0	0	2	0	0
Total	12962	210	12	0	1/12	6	25	47	44	9	7	24	26	1	0

Query objects				
Name	Num attribs Num objects	Gen. Code	U	ser code
CustQueryVirtuals	4	1	87	11
DefaultSkillsForEmpType	4	2	88	0
DeptJoinSubDept	12	2	97	0
EmpJoinDept	16	2	102	0
EmpList	7	1	91	0
EmpSalaryHistory	5	1	89	0
EmpSkills	4	2	88	0
EmpSkillsXDAStoredProcedure	4	2	88	0
OrderItemJoinPart	15	2	100	0
OrderJoinOptSalesRep	19	2	105	0
OrderJoinSalesRep	19	2	105	0
OrderJoinSalesRepAndMgr	22	4	110	0
OrderJoinSalesRepCust	7	3	91	0
OrderJoinSalesRepForTree	16	2	102	0
OrderTotalSalesByCust	2	1	85	0
OrdersNoVirtuals	12	1	97	0
StateWideBalance	2	1	85	0
Total	170		1610	11

Relationships

	Children	Role name	Enforce
CUSTOMERS	CUSTOMER_USER ORDERS	Users hasOrders	True True
DEPARTMENT	DEPARTMENT	SubDepartments	True
DEPARTMENT	EMPLOYEES	EmployeesReportingTo	True
	EMPLOYEES	EmployeesOnLoanTo	True
	EMPLOTEES	EmployeesOnLoanTo	True
EMPLOYEES	DEPARTMENT	Manages	True
	EMPLOYEESAUDIT	EmployeeAudit	True
	EMPLOYEESKILL EMPLOYEESPENDING	EmployeeSkills	True
	EMPLOYEESPENDING	PendingChanges	True
	ORDERS	Orders	True
ORDERS	ORDERITEM	OrderItems	True
PART	ORDERITEM	OrderItems	True
	PARTSRECEIVED	PartsReceived	True
SKILL	EMPLOYEESKILL	EmployeeSkills	True
	VALID_EMPTYP_SKLS	DefaultSkillForEmpType:	s True
VALID_AUTO	VALID_MODELAUTO	Models	True
VALID_CREDIT	CUSTOMERS	Customers	True
VALID_EMPTYPE	EMPLOYEES	Employee	True
/ALID_LIVII TTT L	VALID_EMPTYP_SKLS	DefaultSkills	True
VALID_MODELAUTO	PART	PartsFor	True
VALID_STATE	STATE_TAX_SCHEDULE	TaxSchedules	True
Child	Parents	Role name	Enforce
CUSTOMERS	VALID_CREDIT	CodeTableCredit	True
CUSTOMER_USER	CUSTOMERS	CustomerAccount	True
DEPARTMENT	DEPARTMENT	HeadDepartment	True
	EMPLOYEES	ManagedBy	True
EMPLOYEES	DEPARTMENT	ReportingDepartment	True
	DEPARTMENT	OnLoanDepartment	True
			TTUC
	VALID_EMPTYPE	ValidEmpType	True
<u> </u>	VALID_EMPTYPE EMPLOYEES	ValidEmpType Employee	True True
	EMPLOYEES	Employee	True
EMPLOYEESAUDIT EMPLOYEESKILL	_	. ,.	
	EMPLOYEES EMPLOYEES	Employee Employee	True True
EMPLOYEESKILL EMPLOYEESPENDING	EMPLOYEES EMPLOYEES SKILL EMPLOYEES	Employee Employee Skill EmployeeForChanges	True True True True
EMPLOYEESKILL	EMPLOYEES SKILL	Employee Employee Skill	True True True
EMPLOYEESKILL EMPLOYEESPENDING ORDERITEM	EMPLOYEES EMPLOYEES SKILL EMPLOYEES ORDERS PART	Employee Employee Skill EmployeeForChanges Order Part	True True True True True True
EMPLOYEESKILL EMPLOYEESPENDING	EMPLOYEES EMPLOYEES SKILL EMPLOYEES ORDERS	Employee Employee Skill EmployeeForChanges Order	True True True True True
EMPLOYEESKILL EMPLOYEESPENDING DRDERITEM	EMPLOYEES EMPLOYEES SKILL EMPLOYEES ORDERS PART CUSTOMERS	Employee Employee Skill EmployeeForChanges Order Part placedByCustomer	True True True True True True True True
EMPLOYEESKILL EMPLOYEESPENDING DRDERITEM DRDERS	EMPLOYEES EMPLOYEES SKILL EMPLOYEES ORDERS PART CUSTOMERS EMPLOYEES	Employee Employee Skill EmployeeForChanges Order Part placedByCustomer SalesRep	True True True True True True True True

file:///C|/Temp/SampDB_Report/index.html

VALID_EMPTYP_SKLS

SKILL VALID_EMPTYPE

Skill EmpType

True True

True

VALID_MODELAUTO

VALID_AUTO

Make

HTML applications

App name	Pages Page name	Gen. Code User	code RebuildableData	Objects	P
Automation_Demo	22	40	0	0	0
	Automation_Demo	42	0 0	0	0
	Automation_DemoServlet	30		0	0
	FramesetPage	18	1 true	0	0
	StartupPage	18	1 true	0	0
	pCUSTOMERMenuList	18	1 true	1	0
	pCUSTOMERS	18	0 true	1	0
	pCUSTOMERSQBF	18	1 true	1	1
	pCUSTOMER_Orders	18	1 true	5	0
	pEMPLOYEE	18	0 true	4	7
	pEMPLOYEES	18	0 true	1	3
	pEMP_Add1	23	1 true	1	2
	pEMP_Add2_C	18	0 true	1	0
	pEMP Add2 H	18	0 true	1	0
	pEMP_Add2_N	18	0 true	1	0
	pEMP_Add3_Skills	18	0 true	2	1
	pltem	18	1 true	1	3
	pORDERS_Grid	18	0 true	1	0
	pOrder_Items	18	1 true	3	3
	pOrder_Items_RO	18	0 true	2	0
	pPART	18	0 true	2	1
	pPARTS	18	0 true	1	1
	pPaidOrders_Items	18	0 true	2	0
	pPick_Parts	18	0 true	1	0
	pPick_Skills	18	0 true	1	0
	Total	473	8 100%	33	22
asic_HTML	9				
	Basic_HTML	40	0	0	0
	Basic_HTMLServlet	30	0	0	0
	FramesetPage	18	1 true	0	0
	StartupPage	18	1 true	0	0
	pCUSTOMERMenuList	18	1 true	1	0
	pCUSTOMERSQBF	18	1 false	1	1
	pCUSTOMER_Orders	18	1 false	2	0
	pltem	18	1 false	1	3
	pMenuListFrameset	18	1 true	0	0
	pOrder_Items	18	1 false	2	2
	pPART	18	1 true	1	0
	Total Total	232	9 55.56%	8	6
luginess Change					
susiness_Change	7		0	0	_
susiness_Change	7 Business_Change	22	0	0	0
usiness_Change	7 Business_Change Business_ChangeServlet	22 30	0	0	0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage	22 30 18	0 1 false	0 0	0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage	22 30 18 18	0 1 false 1 true	0 0 0	0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS	22 30 18	0 1 false	0 0	0 0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage	22 30 18 18	0 1 false 1 true	0 0 0	0 0 0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid	22 30 18 18 18 18	0 1 false 1 true 1 false 1 false	0 0 0 2	0 0 0 1
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER	22 30 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false	0 0 0 2 1 1	0 0 0 1 0
dusiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER pMenuListFrameset	22 30 18 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false 1 false	0 0 0 2 1 1	0 0 0 1
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER pMenuListFrameset pPART	22 30 18 18 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false 1 false 1 false 1 false	0 0 0 2 1 1 0	0 0 0 1 0
usiness_Change	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER pMenuListFrameset	22 30 18 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false 1 false 1 false 1 false	0 0 0 2 1 1	0 0 0 1 0
	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER pMenuListFrameset pPART Total	22 30 18 18 18 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false 1 false 1 false 1 false 7 14.29%	0 0 0 2 1 1 0	0 0 0 1 0 1 0 1 3
usiness_Change controls_Date	7 Business_Change Business_ChangeServlet FramesetPage StartupPage pCUSTOMERS pCUSTOMERS_Grid pCUSTOMER_USER pMenuListFrameset pPART	22 30 18 18 18 18 18 18	0 1 false 1 true 1 false 1 false 1 false 1 false 1 false 1 false	0 0 0 2 1 1 0	0 0 0 1 0

file:///C /Temp/SampDB_Report/index.html					
	StartupPage	0	0 true	0	C
	pORDERS	17	1 false	2	5
	Total	69	1 50%	2	5
Controls Tree	9				
56.III.616_1166	BoundTree	17	0 false	0	C
	Controls_Tree	22	0	0	C
	Controls_TreeServlet	30	0	0	C
	FramesetPage	17	0 true	0	C
	StartupPage	17	0 true	0	C
	pCUSTOMERS	17	0 false	1	C
	pDEPARTMENT	17	0 false	1	(
	pDEPARTMENT_Grid	43 17	93 false 1 false	1 0	
	pNoData pORDERS	17	0 false	1	(
	startupFrameset	17	0 false	0	(
	Total	231	94 22.22%	4	(
	Total	201	J4		
vents_Actions	3				
	Events_Actions	22	0	0	C
	Events_ActionsServlet	30	0	0	C
	StartupPage	0	0 true	0	C
	pCUSTOMERS	26	18 false	1	1
	pORDERS_Grid	17	1 false	1	(
	Total	95	19 33.33%	2	1
vents_DataSource	8				
	Events_DataSource	22	0	0	C
	Events_DataSourceServlet	30	0	0	C
	FramesetPage	18	1 false	0	(
	StartupPage	18	1 true	0	(
	pAddCustomer	18	1 false	1	•
	pCUSTOMERS	31	21 false	1	1
	pCUSTOMERS_Grid	23	21 false	1	(
	pEMPLOYEESGiveRaise	23	30 false	1	3
	pEMPLOYEES_Grid	18	1 false	1	(
	pMenuListFrameset <mark>Total</mark>	18 219	1 false 77 12.5%	0 5	5
	Total	219	11 12.370	J	
vents_Hide_Fields	2				
_	Events_Hide_Fields	22	0	0	C
	Events_Hide_FieldsServlet	30	0	0	C
	StartupPage	0	0 true	0	C
	pEMPLOYEES	22	14 false	1	3
	<u>Total</u>	74	14 50%	1	3
vents_Tracing	5				
vents_rrading	Events_Tracing	40	0	0	C
	Events_TracingServlet	30	0	0	
	FramesetPage	18	0 false	0	Ċ
	StartupPage	18	0 true	0	Ċ
	pCUSTOMERS	18	0 false	2	C
	pDEPARTMENT	18	0 false	2	(
	pORDERS	18	0 false	1	2
	Total	160	0 20%	5	2
rames_Multiple	7				
rames_iviuliipie	/ FrameSetEmpsPlus	17	1 false	0	(
	Frames_Multiple	22	0	0	(
	Frames_MultipleServlet	30	0	0	
	FramesetPage	17	1 false	0	C
	StartupPage	17	1 true	0	C
	pCUSTOMERS	17	1 false	1	Ċ
	pEmpJoinDept_Grid	17	1 false	1	C
	–				

file:///C /Temp/SampDB_Report/index.html					
	pOrderItemJoinPart_Grid	17	1 false	1	0
	pOrderJoinOptSalesRep_Grid Total	17 171	1 false 7 14.29%	1 4	(
OridDisales Faces					
GridDisplayForm	2 GridDisplayForm	40	0	0	(
	GridDisplayFormServlet	30	0	0	(
	StartupPage	0	0 true	0	(
	pCUSTOMERS Total	23 93	3 false 50%	1	(
	Total	93	3 50%		(
HTML_Mail	4				
	FramesetPage	17	0 false	0 0	
	HTML_Mail HTML_MailServlet	22 30	37 0	0	(
	StartupPage	17	0 true	0	Č
	pCUSTOMERS	30	19 false	1	
	pCUSTOMERS2	17	0 false	1	
	Total	133	56 25%	2	
DDV Dagia LITMI	45				
PDX_Basic_HTML	15 FramesetPage	42	0 true	0	(
	PDX_Basic_HTML	101	0	0	(
	PDX_Basic_HTMLServlet	113	0	Ö	(
	StartupPage	112	0 true	Ō	(
	pAddEmployee	57	0 true	1	(
	pCustomerList	91	0 true	1	(
	pCustomerOrders	135	0 true	4	
	pCustomerPick	57	0 true	1	(
	pDepartment	65	0 true	1	
	pEditCustomer	61	0 true	1	
	pEditOrder	84	0 true	2	;
	pEmployeeDetails	84	0 true	2	3
	pEmployeeList	94	0 true	1	(
	pEmployeeSearch	74	0 true	1	(
	pMenuListFrameset	42	0 true	0	(
	pPartDetails pPartList	57 74	0 true 0 true	1 1	(
	Total	1385	0 100%	17	(
PDX_Basic_Layout	4	40	0.4	0	
	FramesetPage PDX_Basic_Layout	18	0 true 0	0 0	(
	PDX_Basic_Layout PDX_Basic_LayoutServlet	40 30	0	0	(
	StartupPage	18	0 0 true	0	(
	pCUSTOMERS	18	0 true	3	2
	pEMPLOYEES	18	0 true	1	
	Total Total	142	0 100%	4	
DDV Conneding Dieks	4				
PDX_Cascading_Picks	4 FramesetPage	42	0 true	0	(
	PDX_Cascading_Picks	101	0	0	Ċ
	PDX_Cascading_PicksServlet	113	0	Ö	Ì
	StartupPage	76	0 true	0	Ċ
	pCUSTOMERS	57	0 true	1	(
	pDEPARTMENT	70	5 false	1	:
	Total Total	501	5 75%	2	
PDX_Conditional_Branching	6				
	FramesetPage	18	0 true	0	(
	i idiliesetrage				
		40	0	0	(
	PDX_Conditional_Branching PDX_Conditional_BranchingServlet	40 30	0 0	0 0	
	PDX_Conditional_Branching				0

file:///C /Temp/SampDB_Report/index.html					
	pORDERS	18	0 true	1	2
	pORDERS4	18	0 true	1	2
	pORDERS_Grid	18	0 true	1	0
	Total	178	0 100%	4	4
PDX_Dynamic_Hide_Show_Style	5				
	FramesetPage	18	0 true	0	0
	PDX_Dynamic_Hide_Show_Style	40	0	0	0
	PDX_Dynamic_Hide_Show_StyleServlet	30	0	0	0
	StartupPage	18	0 true	0	0
	pEMPLOYEES	18	0 true	2	4
	pEMPLOYEESAUDIT	18	0 true	1	1
	pORDERS_Grid Total	18 160	0 true 0 100%	1 4	0 5
			10070		
PDX_Groups	2	40	•		
	PDX_Groups	40	0	0	0
	PDX_GroupsServlet	30	0	0	0
	StartupPage	0	0 true	0	0
	pEMPLOYEES Total	18 88	0 true 0 100%	3 3	5 5
PDV I I :					
PDX_Inclusion	14 FramesetPage	18	0 true	0	0
	PDX_Inclusion	42	0	0	0
	PDX_InclusionServlet	30	0	0	0
	StartupPage	18	0 true	0	0
	pBottomLeftSKILLS	18	0 true	1	0
	pBottomRightAUDIT	18	0 true	1	0
	pCUSTOMERS	18	0 true	1	1
	pCUSTOMERS_Grid	18	0 true	1	0
	pDEPARTMENT	18	0 true	1	2
	pDEPARTMENT10	18	0 true	3	0
	pIntroduction	18	0 true	0	0
	pORDERITEM_Grid	18	0 true	1	0
	pORDERS	18	0 true	1	2
	pORDERS8_Grid	18	0 true	1	0
	pTopLeftEMPLOYEES	18	0 true	1	2
	pTopRightORDERS	18	0 true	1	0
	Total Total	324	0 100%	13	7
PDX_Menu_Tabs	5				
	FramesetPage	18	0 true	0	0
	PDX_Menu_Tabs	40	0	0	0
	PDX_Menu_TabsServlet	30	0	0	0
	StartupPage	18	0 true	0	0
	pCUSTOMERS	18	0 true	2	1
	pEMPLOYEES	18 18	0 true 0 true	2 1	3
	pORDERS Total	160	0 true 0 100%	5	6
PDX_Popup_Picks	2 DDV Denue Bieke	100	0	0	_
	PDX_Popup_Picks	109	0	0	0
	PDX_Popup_PicksServlet StartupPage	113	0 0 true	0 0	0
	pOrderJoinSalesRep	0 65	0 true	1	0 2
	Total	329	0 100%	1	2
DDV Datum Comm.					
PDX_Return_Command	7 FramesetPage	18	0 true	0	0
	PDX Return Command	40	0 true 0	0	0
	PDX_Return_CommandServlet	30	0	0	0
	StartupPage	18	0 true	0	0
	gsCUSTOMERS	18	0 true	1	1
	5	. •		•	•

file:///C /Temp/SampDB_Report/index.html					
	gsORDERS	18	0 true	1	2
	pCUSTOMERS	18	0 true	1	1
	pCUSTOMERS_ORDERS	18	0 true	2	0
	pORDERS	18	0 true	1	2
	Total	196	0 100%	6	6
Recompute_Derivations	4				
Necompute_Derivations	FramesetPage	17	0 false	0	0
	Recompute_Derivations	22	0	0	0
	Recompute_DerivationsServlet	30	0	0	0
	StartupPage	17	0 true	0	0
	pCUSTOMERS	17	0 false	1	1
	pEMPLOYEES_Grid	17	0 false	1	0
	<u>Total</u>	120	0 25%	2	1
Server_Extended_Properties	3				
	Server_Extended_Properties	72	0	0	0
	Server_Extended_PropertiesServlet	95	0	0	0
	StartupPage	0	0 true	0	0
	pEMPLOYEES	64	0 false	1	1
	pEMPLOYEESPENDING_Grid	44	0 false	1	0
	<u>Total</u>	275	0 33.33%	2	1
ShoppingCart	5				
	ShoppingCart	22	0	0	0
	ShoppingCartServlet	30	0	0	0
	StartupPage	59	1 true	0	0
	pCUSTOMERS	18	1 false	1	0
	pORDERITEM	18	1 false	1	2
	pORDERS	18	1 false	2	2
	pPART <mark>Total</mark>	18 183	1 false 5 20%	1 5	1 5
Observe Dialare					
Show_Dialog	3 Show_Dialog	22	0	0	0
	Show_DialogServlet	30	0	Ō	0
	StartupPage	0	0 true	0	0
	pCUSTOMERS	31	31 false	1	1
	pMessage	17	1 false	0	0
	Total	100	32 33.33%	1	1
SortCombo	9				
	FramesetPage	42	0 true	0	0
	SortCombo	101	0	0	0
	SortComboServlet	113	0	0	0
	StartupPage	127	0 true	0	0
	pCUSTOMERS	61	0 true	1	1
	pCUSTOMERS5_Grid	78	0 false	1	1
	pCUSTOMERS8	57	0 false	1	0
	pORDERITEM	82	0 true	1	2
	pORDERITEM_Grid	82	0 true	1	2
	pORDERS_Grid	82	0 true	1	2
	pPART_Grid <mark>Total</mark>	57 924	0 true 0 77.78%	1 7	0 8
		021	17.1070		J
	2	0	0.4	0	0
SubClass				0	0
SubClass	StartupPage	0	0 true		
SubClass	StartupPage SubClass	22	0	0	0
SubClass	StartupPage SubClass SubClassServlet	22 30	0 0	0 0	0
SubClass	StartupPage SubClass	22	0	0	0 0
Suppress Login	StartupPage SubClass SubClassServlet pEMPLOYEES Total	22 30 17	0 0 1 false	0 0 1	0 0 3
SubClass Suppress_Login	StartupPage SubClass SubClassServlet pEMPLOYEES	22 30 17	0 0 1 false	0 0 1	0 0 3

Suppress_Login	22	0		0	0
Suppress_LoginServlet	30	26		0	0
pCUSTOMERS	17	0 false)	1	0
Total	69	26	50%	1	0

Grand total 172 7331 364 66.28%

Java applications

App name	Pages	Form name	Gen. Code Oser C	ode RebuildableData	Objects	Pic
Basic_Data_Access		2 Basic_Data_Access	36	6 true	0	0
		DEPARTMENT		116 false	5	3
			43			
		StartupForm	16	0 true	0	0
		Total	95	122 50%	5	3
Client_Custom_Login		3				
		Client_Custom_Login	36	20 true	0	0
		Customers	16	0 false	1	0
		Login	53	40 false	0	0
		StartupForm	16	1 true	0	0
		Total	121	61 33.33%	1	0
Client Formatting I18N		3				
Juliania di Tiana		Client_Formatting_I18N	36	6 true	0	0
		FirstForm	23	21 false	0	0
		ORDERS	23	1 false	1	0
		StartupForm	16	0 true	Ö	0
		Total	98	28 33.33%	1	0
New Laws Davis						
Client_JavaBean		2 Client_JavaBean	36	Caman	0	0
				6 true	0	
		MoleculeBean	23	17 false	0	0
		StartupForm Total	0 59	0 true 50%	0 0	0 0
Client_Share_Form		5 Client Share Form	36	6 true	0	0
		StartupForm	0	0 true	0	0
		fCUSTOMER	16	0 true 0 false	2	1
		fCUSTOMERS	16	0 false	1	1
		fOrderJoinOptSalesRep	16	0 false	2	5
		fPART Total	16 100	0 false 6 20%	2 7	3 10
		Iotai	100	6 20%	/	10
Client_Subclass_ContainerEvents		3				
		Client_Subclass_ContainerEvents	90	6 true	0	0
		StartupForm	98	1 true	0	0
		fCUSTOMERS	828	6 false	1	1
		fPART	853	2 false	1	1
		Total	1869	15 33.33%	2	2
Client_Subclass_GridDoubleClick		3				
		Client_Subclass_GridDoubleClick	36	6 true	0	0
		StartupForm	0	0 true	0	0
		fCUSTOMERS	16	0 true	1	1
		fCUSTOMERS_Grid	16	0 false	1	1
		Total	68	6 66.67%	2	2
Client Subclass MenuTree		3				
		. 1				

file:///C /Temp/SampDB_Report/index.html					
	PARTS	16	0 false	1	1
	StartupForm	23	2 true	0	0
	fCUSTOMERTREE	33	5 false	5	7
	Total	108	13 33.33%	6	8
Client Subclass ToytPoy	2				
Client_Subclass_TextBox	2 CUSTOMERS	16	0 false	1	1
	Client_Subclass_TextBox	36	6 true	0	0
	StartupForm	0	0 true	0	0
	Total	52	6 50%	1	1
Olicot Ochologo MariantDanal	0				
Client_Subclass_VariantPanel	3 Client_Subclass_VariantPanel	36	6 true	0	0
	StartupForm	0	0 true	0	0
	fEMPLOYEE	16	0 false	1	2
	fEMPLOYEES	16	0 false	1	2
	Total	68	6 33.33%	2	4
Client_Subclass_WarningMessages	2 CUSTOMERS	502	1 false	1	1
	Client_Subclass_WarningMessages		6 true	0	0
	StartupForm	0	0 true	0	0
	Total	596	7 50%	1	1
				•	-
Client_Tree_Customers	4				
	Client_Tree_Customers	36	6 true	0	0
	CustOrdersInTree	30	15 false	3	2
	CustomersSearch	37	16 false	1	0
	PartList	23	3 false	1	1
	StartupForm Total	16 142	-1 true 39 25%	0 5	0 3
	rotar	174	2070	o o	Ü
Demo_BusinessObject_Methods	5				
	DEPARTMENT	16	0 false	2	0
	Demo_BusinessObject_Methods	36	6 true	0	0
	ObjectByFactory	23	24 false	1	0
	ObjectByRow	23	24 false	1	0
	StartupForm	0	0 true	0	0
	fEmpByAttrs	16	0 false	1	0
	Total	114	54 20%	5	0
DepartmentExceptions	2				
	DepartmentExceptions	94	6 true	0	0
	StartupForm	0	0 true	0	0
	fDEPARTMENT	784	2 false	2	2
	Total	878	8 50%	2	2
JavaExchange	2				
g-	JavaExchange	94	6 true	0	0
	StartupForm	0	0 true	0	0
	fJXAppointment	518	0 true	1	0
	Total	612	6 100%	1	0
Layout_Managers	3				
Layout_Managers	Layout_Managers	36	6 true	0	0
	StartupForm	23	0 true	0	0
	fCUSTOMERS	16	-1 false	1	0
	fCUSTOMERS2	16	-1 false	1	0
	Total	91	4 33.33%	2	0
MDI_Application	3				
ινισι_Αργιισατίστι	MDI_Application	36	14 true	0	0
	StartupForm	26	10 true	0	0
	fCUSTOMERS	49	11 false	5	0
				-	,

file:///C /Temp/SampDB_Report/index.html					
	fDEPARTMENT	30	10 false	2	0
	Total	141	45 33.33%	7	0
Server_EventAction_CreateChildren	2				
	Server_EventAction_CreateChildren	36	6 true	0	0
	StartupForm	0	0 true	0	0
	fEMPLOYEES Total	23 59	3 false 9 50%	5 5	5 5
			0070	Ü	Ŭ
Server_EventAction_Email	2 CreateLargeOrder	15	2 false	2	2
	Server_EventAction_Email	35	6 true	0	0
	StartupForm	102	0 true	0	0
	Total	152	8 50%	2	2
Server_Event_Commit	2				
	Server_Event_Commit	36	6 true	0	0
	StartupForm	0	0 true	0	0
	fORDERS	23	12 false	2	4
	Total	59	18 50%	2	4
Server_Event_QueryAttributes	2				
	Server_Event_QueryAttributes	35	6 true	0	0
	StartupForm	0 15	0 true 0 false	0	0
	fCustQueryVirtuals Total	50	6 50%	1 1	0
	Total	30	0 3070		U
Server_Extended_Rules_Functions	2 ADDORDERS	15	0 false	5	6
	Server_Extended_Rules_Functions	35	6 true	0	0
	StartupForm	0	0 true	0	0
	Total	50	6 50%	5	6
Server_Extended_Rules_Mods	3				
CONTROL EXICOLOGISTICAL	CUSTOMERS	25	30 false	3	5
	PARTS	15	0 false	1	1
	Server_Extended_Rules_Mods	35	6 true	0	0
	StartupForm <mark>Total</mark>	15 90	0 true 36 33.33%	0 4	0 6
	Iotal	90	36 33.33%	4	0
Server_Security	3				
	SECUREDATA Server Security	15 25	0 false	1	0
	Server_Security StartupForm	35 15	6 true 0 true	0 0	0
	fEMPLOYEES	15	0 false	1	3
	Total	80	6 33.33%	2	3
Server_XDA_CSVfile	2				
33.13/D/_004110	Server_XDA_CSVfile	35	6 true	0	0
	StartupForm	0	0 true	0	0
	XDA_CUSTOMERS	15	0 false	1	0
	Total	50	6 50%	1	0
Server_XDA_StoredProcedure	2				
	EMPLOYEES	15	0 false	3	6
	Server_XDA_StoredProcedure	35	6 true	0	0
	StartupForm <mark>Total</mark>	0 50	0 true 6 50%	0 3	0 6
				-	
TestExceptions	2 StartupForm	0	0 true	0	0
	TestExceptions	94	6 true	0	0
	fPARTSRECEIVED	582	37 true	1	1
	Total	676	43 100%	1	1

VFC_Swing_Controls	8				
_	StartupForm	16	-1 true	0	0
	VFC_Swing_Controls	36	6 true	0	0
	demoAutomaticQuery	29	18 false	1	1
	demoChoiceEdit	16	-1 false	1	0
	demoSwingBean	27	19 false	1	0
	demoVSGridTree	16	3 false	5	0
	demoVSScrollPane	16	-1 false	1	1
	demoVSSplitPane	16	-1 false	1	1
	demoVSTreeTable	23	5 false	1	2
	Total	195	47 12.5%	11	5
_Demo	8				
_56110	CUSTOMER	30	5 false	3	0
	CUSTOMERS_Grid	30	20 false	1	0
	EmployeeList	29	10 false	1	2
	OrderJoinSalesRep	16	-1 false	2	2
	PART	16	-1 false	2	1
	ReadMeFirst	16	-1 false	0	0
	StartupForm	16	0 true	0	0
	Demo	36	8 true	0	0
	Denio fDepartment	16	-1 false	3	4
	Total	205	39 12.5%	12	9
B: 1					
_Pick	5 StartupForm	16	0 true	0	0
	_Pick	36	6 true	0	0
	fAddOrder	16	0 false	2	4
	fEmployee	23	2 false	4	6
	fOrderJavaPick	23	7 false	2	4
	fPART_Grid_Pick	16	0 false	1	1
	Total	130	15 20%	9	15
_Transitions	7				
_11413110113	CUSTOMER	16	0 false	2	1
	CUSTOMERS_Grid	16	0 false	1	1
	ORDER	16	0 false	2	5
	StartupForm	64	0 true	0	0
	Transitions	36	6 true	0	0
	fEmpHello	16	0 false	1	2
	fFellowEmployeesGrid	16	0 false	1	2
	fORDERS_Grid	16	0 false	1	2
	Total	196	6 14.29%	8	13
testJDBC	2				
	StartupForm	0	0 true	0	0
	fVALID_STATE	419	0 true	1	0
	testJDBC	94	6 true	0	0
	Total	513	6 100%	1	0
Grand total	102	7767	706 35.29%	267	229

Other files

File name	Code lines
ComboBoxElementExt.java.java	77
CorpReuseExtRulesDataObject.java.java	420
CustomExceptionHandler.java.java	121
EffectiveDateDataObj.java.java	68
ExcelGateWay.java.java	132

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JebExchange.java.java	52
JebExchangeAppointment.java.java	69
JebExchangeContact.java.java	50
JebExchangeMessage.java.java	69
MailEnabledDataObject.java.java	23
SecureDataObject.java.java	123
SprcDataManager.java.java	31
TableElementExt.java.java	150
TestJDBCStatement.java.java	37
WildCardTextElement.java.java	44
XDAConnection.java.java	25
XDAExchangeBridge.java.java	81
XDAExchangeConnection.java.java	57
XDASample1.java.java	84
Total	1713

CUSTOMERS

SampDB1

Repository name : Repository location : Analysis date : Analysis run on machine : C:\Versata_55\Samples\SampDB1 Wed Jul 16 17:05:39 PDT 2003

TYLER_DELL Analysis run by user : Tyler

DataObject Name : CUSTOMERS

Description : This is a list of all customers for the company.

Attributes	Caption	Nullability	Persistent	DataType	Business Rule
Name	Customer Name	Required	Persistent	VarChar(50)	None()
					Sum(hasOrders(ORDERS), OrderTotal, RepositoryName = SampDB1 and AttrName = ActBalance and
ActBalance	Balance	Optional	Persistent	Currency	DataObjectName = CUSTOMERS)
					Sum(hasOrders(ORDERS), OrderTotal, RepositoryName = SampDB1 and AttrName = TotalSales and
TotalSales	Total Sales	Optional	Persistent	Currency	DataObjectName = CUSTOMERS)
0 A 4. D I . F			5	•	Sum(hasOrders(ORDERS), SumAutoBucksEarned, RepositoryName = SampDB1 and AttrName =
SumAutoBucksEarned	Auto Bucks Earned	Optional	Persistent	Currency	SumAutoBucksEarned and DataObjectName = CUSTOMERS)
SumAutoBucksUsed	Auto Bucks Used	Ontional	Dorointont	Currency	Sum(hasOrders(ORDERS), AutoBucksUsed, RepositoryName = SampDB1 and AttrName = SumAutoBucksUsed and DataObjectName = CUSTOMERS)
CustNum	Cust#	Optional	Persistent Persistent	Currency AutoNumber	SumAutobucksUsed and DataObjectivame = CUSTOMERS)
CreditCode	Credit Code	Required Optional	Persistent	Integer	Default(2)
SieditCode	Credit Code	Ориона	reisisterit	meger	Formula(if ((Updating and CreditLimit = :Old.CreditLimit) OR CreditLimit IS NULL) AND (Inserting OR ((
					Cold.MaxCreditLimit = MaxCreditLimit AND (:Old.MaxCreditLimit = OrdetLimit Note Note
CreditLimit	Credit Limit	Optional	Persistent	Currency	MaxCreditLimitEnd f)
State	State	Optional	Persistent	VarChar(12)	Wazorealicalinicalini, CodedValueList(VALID STATE)
sOnHold	On Hold	Optional	Persistent	Boolean	Default(False)
MaxCreditLimit	Max Credit	Optional	Persistent	Currency	ParentReplicate(CodeTableCredit(VALID_CREDIT), creditMaxBalance, Maintained)
Street	Street	Optional	Persistent	VarChar(32)	Default(")
	City	Optional	Persistent	VarChar(24)	Default)
City ZIP	Post Code	Optional	Persistent	Long	
Photo	Photo	Optional	Persistent	VarChar(30)	
		op.ioi.a.	. 0.0.0.0	rai Griai (GG)	Count(hasOrders(ORDERS), RepositoryName = SampDB1 and AttrName = NumOrdersPaid and
NumOrdersPaid	# Orders Paid	Optional	Persistent	Integer	DataObjectName = CUSTOMERS)
					Count(hasOrders(ORDERS), RepositoryName = SampDB1 and AttrName = NumOrdersUnpaid and
NumOrdersUnpaid	# Orders Unpaid	Optional	Persistent	Integer	DataObjectName = CUSTOMERS)
LastOrderNum .	LastOrderNum	Optional	Persistent	Long	None()
		•			
Constraints	When Constraint				Error Message
AutoBucksExceeded		ed > SumAutoBucksE			Sorry, this exceeds Auto Bucks Earned (buy more stuff!)
					CredtLimit is entered by the End
BalanceExceeded	RejectWhen User, but see				Sorry - Customer Balance exceeds Credit Limit
ExceededMaxLimit	AcceptWhen CreditLimit <= Max		CreditLimit = Cre	editLimit and :Old.M	
PreventDeletesIfOnHold	RejectWhen (deleting and :old.				Customer delete is rejected because the customer is on Hold status.
					This will allow a prepaid order to
			omer is still on ho	old. Very valuble du	ring a backrupcy proceeding
PreventOrderIfOnHold	RejectWhen against a custome				Customer is currently on hold, so new orders are rejected
	RejectWhen isCurrentEvent('Cl	ISTOMED Warning'	- falco AND Str	root - '1 Elm'	Warning: that is an unlikely street address - press Save to continue, or Undo to cancel
UnlikelyStreet	Rejectiviteti iscurrenti venti Ci	JOTOWILK_Walling)	- Iaise AIND Sti	ieet – i Liiii	warning. that is an uninkely street address - press Save to continue, or ondo to cancer

Event Condition Action	Condition	Actio

Parent Relationships CUSTOMERS JN CUSTOMER USE	Parent Parent Parent	Child CUSTOMER USER	Enforced Enforced
CUSTOMERS_JN_ORDERS	CUSTOMERS	ORDERS	Enforced
Child Relationships	Child	Parent	Enforced

VALID_CREDIT_JN_CUSTOMERS CUSTOMERS VALID_CREDIT Enforced

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User Defined Methods beforeDelete public void SampDB1.CUSTOMERSImpl.beforeDelete(versata.vls.DataObject,versata.vls.Response) addListeners public void SampDB1.CUSTOMERSImpl.addListeners() public static SampDB1.CUSTOMERSImpl

getNewObject SampDB1.CUSTOMERSImpl.getNewObject(versata.vls.Session,boolean)

beforeCommit public void SampDB1.CUSTOMERSImpl.beforeCommit(versata.vls.Session,versata.vls.Response)

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ORDERS

Repository name: SampDB1

Repository location : C:\Versata_55\Samples\SampDB1 Analysis date : Wed Jul 16 17:05:39 PDT 2003

Analysis run on machine : TYLER_DELL Analysis run by user : Tyler DataObject Name: ORDERS

Description: Orders taken from customers

Attributes	Caption	Nullability	Persistent	DataType	Business Rule
OrderNumber	Order#	Optional	Persistent	AutoNumber	
					Formula(If (IsPaidByAutoBucks = true) Then \$value = Freight + TaxElse \$value = Freight + Tax +
OrderTotal	Order Total	Optional	Persistent	Currency	AmountItemsEnd If)
OrderPaid	Paid	Optional	Persistent	Boolean	Default(False)
					Sum(OrderItems(ORDERITEM), Amount, RepositoryName = SampDB1 and AttrName = AmountItems and
Amountitems	Amount	Optional	Persistent	Currency	DataObjectName = ORDERS)
					Formula(If (Inserting OR (AmountItems <> :Old. AmountItems)) Then \$value = AmountItems * TaxRate(
					getplacedByCustomer().getState(), getPlacedDate()) End If /* or, you could code thisIf (Inserting OR (
					AmountItems <> :Old. AmountItems)) Then \$value = AmountItems * GetSqlValue(('select taxrate as taxrate
					from state_tax_schedule where State ="" + getState() + "" and DateHighRange >= "" +
				_	getPlacedDate().toDefaultSQLServerTimeStampFormat(getMyLocale()) + "" order by datehighrange'),
Гах	Tax	Optional	Persistent	Currency	('taxrate')) see corp re-use */)
					Formula(If (AmountItems <= GetFreightBulkDiscountValue()) Then \$value = AmountItems * 0.20Else
					\$value = AmountItems * GetFreightBulkDiscountRate() /* eg, 10% */End If /* For GetFreightBulk, use
Freight	Freight	Optional	Persistent	Currency	Repository Explorer (File View). and examine the CorpReuseExtRulesDataObject */)
ShippedFlag	Shipped	Optional	Persistent	Boolean	Default(False)
			.		Sum(OrderItems(ORDERITEM), AutoBucksEarned, RepositoryName = SampDB1 and AttrName =
SumAutoBucksEarned	Auto Bucks Earned	Optional	Persistent	Currency	SumAutoBucksEarned and DataObjectName = ORDERS)
			-		Formula(If (IsPaidByAutoBucks = True /* Yes */) Then \$value = AmountItems /* discount does not apply
AutoBucksUsed	Auto Bucks Used	Optional	Derived	Currency	*/Else \$value = 0End If)
sPaidByAutoBucks	Use Auto Bucks	Optional	Persistent	Boolean	Default(False)
PlacedDate	Placed Date	Optional	Persistent	DateTime	Default(date())
DueDate ShipDate	Due Date	Optional	Persistent	DateTime	Formula(if inserting and DueDate IS NULL then \$value = Add_Months(PlacedDate , 1)end If)
SnipDate CurrentYear	Ship Date This Year	Optional	Persistent Persistent	DateTime	Formula InCurrentVeer DiscodDate))
SalesRepID	SalesRep ID	Optional	Persistent	Boolean	Formula(InCurrentYear(PlacedDate))
	·	Optional	Derived	Long	Derent Denlingte (School Den/EMDLOVEES) EmpType Maintained)
EmpType CustNum	Employee Type Cust#	Optional		VarChar(1)	ParentReplicate(SalesRep(EMPLOYEES), EmpType, Maintained)
Custivum	Cusi#	Required	Persistent	Long	
Constraints	When Constraint				Error Message
		CurrentEvent('ORDER	S Purge') = false	AND Old Shinner	IFlag != false AND :Old.OrderPaid
NoDeleteShipped	RejectWhen != false	Sanonie voni ONDEN	o. argo / = laist	, , , , , , , , , , , , , , , , , , ,	Shipped order may not be deleted, only purged after payment.
No Domovell Innoid	Deiget Man Deleting and Ol	d Chinnad Floor I folco	and .Old Ordar	aid folos	Orders connect by deleted as named if they are chimned but not poid

sendMail(getSalesRep().getEmail(), getSalesRep().getReportingDepartment().getManagedBy().getEmail(),

getSalesRep().getName() + ' for closing a deal worth \$' + getAmountItems().toString() + '! (Order Number: ' +

'Large Order from ' + getplacedByCustomer().getName(), 'Congratulations go to ' +

getplacedByCustomer().setLastOrderNum(OrderNumber);getplacedByCustomer().save()

getData('OrderNumber').toString() + ')' , 1);

Constraints	vvnen	Constraint	Error Message	
		Deleting AND isCurrentEvent('ORDERS.Purge') = false AND :Old.ShippedFlag != false AND :Old.OrderPaid	d	
NoDeleteShipped F	RejectWhen	!= false	Shipped order may not be deleted, only purged after payme	ent.
NoRemovalUnpaid F	RejectWhen	Deleting and :Old.ShippedFlag != false and :Old.OrderPaid = false	Orders cannot be deleted or purged if they are shipped but	not paid
OnlySalesRepsHaveOrders A	AcceptWhen	EmpType = 'C' /* Commission */	Sorry, Only Sales Reps Can Place Orders	

Event Condition Action Condition

OrderTotal > 20000 and (Inserting or :Old.OrderTotal < 20000) and isNull('SalesRepID') = false SetLastOrder Inserting

Parent Relationships Parent Child Enforced ORDERS_JN_ORDERITEM ORDERS ORDERITEM Enforced

Child Relationships Child Enforced **Parent** CUSTOMERS JN ORDERS ORDERS **CUSTOMERS** Enforced EMPLOYEES JN ORDERS **ORDERS EMPLOYEES** Enforced

Indexes

bigOrder

CustNum_PlacedDate_ORDERSCustNum || PlacedDate ||

Method Signature User Defined Methods addListeners public void SampDB1.ORDERSImpl.addListeners() getNewObject public static SampDB1.ORDERSImpl SampDB1.ORDERSImpl.getNewObject(versata.vls.Session,boolean) beforeCommit public void SampDB1.ORDERSImpl.beforeCommit(versata.vls.Session,versata.vls.Response) sendBigOrderMail public void SampDB1.ORDERSImpl.sendBigOrderMail(long,long,long) throws versata.vls.ServerException

file:///C|/Temp/SampDB_Report/ORDERS.html (1 of 2) [8/9/2003 10:59:35 AM]

purge	public void SampDB1.ORDERSImpl.purge()
Used By	Used In
CUSTOMERS	Sum OrderTotal
CUSTOMERS	Sum OrderTotal
CUSTOMERS	Sum SumAutoBucksEarned
CUSTOMERS	Sum AutoBucksUsed
CUSTOMERS	Count
CUSTOMERS	Count
EMPLOYEES	Sum OrderTotal
ORDERITEM	ParentReplicate ShippedFlag
OrderJoinOptSalesRep	QUERY
OrderJoinSalesRep	QUERY
OrderJoinSalesRepAndMgr	QUERY
OrderJoinSalesRepCust	QUERY
OrderJoinSalesRepForTree	QUERY
OrdersNoVirtuals	QUERY
OrderTotalSalesByCust	QUERY
ORDERS	FORM Controls Date:pORDERS
ORDERS	- !
ORDERS	FORM Controls_Tree:pORDERS
ORDERS	FORM Events_Actions:pORDERS_Grid
ORDERS	FORM Events_Tracing:pCUSTOMERS
	FORM Events_Tracing:pORDERS
ORDERS	FORM ShoppingCart:pORDERS
ORDERS	FORM PDX_Basic_HTML:pCustomerOrders
ORDERS	FORM PDX_Basic_HTML:pCustomerOrders
ORDERS	FORM PDX_Basic_HTML:pEditOrder
ORDERS	FORM PDX_Basic_Layout:pCUSTOMERS
ORDERS	FORM PDX_Basic_Layout:pCUSTOMERS
ORDERS	FORM PDX_Conditional_Branching:pORDERS4
ORDERS	FORM PDX_Dynamic_Hide_Show_Style:pORDERS_Grid
ORDERS	FORM PDX_Groups:pEMPLOYEES
ORDERS	FORM PDX_Inclusion:pORDERS8_Grid
ORDERS ORDERS	FORM PDX_Inclusion:pORDERS
	FORM PDX_Menu_Tabs:pEMPLOYEES
ORDERS	FORM PDX_Menu_Tabs:pCUSTOMERS
ORDERS	FORM PDX_Menu_Tabs:pORDERS
ORDERS	FORM PDX_Return_Command:pCUSTOMERS_ORDERS
ORDERS	FORM PDX_Return_Command:pORDERS
ORDERS	FORM PDX_Return_Command:gsORDERS
ORDERS	FORM SortCombo:pORDERS_Grid
ORDERS	FORM _Pick:fEmployee
ORDERS	FORM MDI_Application:fCUSTOMERS
ORDERS	FORM MDI_Application:fCUSTOMERS
ORDERS	FORM Server_Event_Commit:fORDERS
ORDERS	FORM Server_Extended_Rules_Functions:ADDORDERS
ORDERS	FORM VFC_Swing_Controls:demoVSGridTree
ORDERS	FORM VFC_Swing_Controls:demoVSGridTree
ORDERS	FORM Client_Formatting_I18N:ORDERS

```
//NOTE Test SUM on Attribute Name TotalSales
ASSERT $CUSTOMERS.TotalSales IS NOT NULL
IF $CUSTOMERS.TotalSales IS NOT NULL
// Testing Sum value $CUSTOMERS.TotalSales
    ASSERT $CUSTOMERS.TotalSales = sum("ORDERS", "OrderTotal", "CustNum = $CUSTOMERS.CustNum")
END IF
//NOTE Test SUM on Attribute Name SumAutoBucksEarned
ASSERT $CUSTOMERS.SumAutoBucksEarned IS NOT NULL
IF $CUSTOMERS.SumAutoBucksEarned IS NOT NULL
// Testing Sum value $CUSTOMERS.SumAutoBucksEarned
   ASSERT $CUSTOMERS.SumAutoBucksEarned = sum("ORDERS", "SumAutoBucksEarned", "CustNum =
$CUSTOMERS.CustNum")
END IF
//NOTE Test SUM on Attribute Name SumAutoBucksUsed
ASSERT $CUSTOMERS.SumAutoBucksUsed IS NOT NULL
IF $CUSTOMERS.SumAutoBucksUsed IS NOT NULL
// Testing Sum value $CUSTOMERS.SumAutoBucksUsed
     ASSERT $CUSTOMERS.SumAutoBucksUsed = sum("ORDERS", "AutoBucksUsed", "CustNum =
$CUSTOMERS.CustNum")
END IF
//Parent Replicate: is maintained? true
IF $CUSTOMERS.MaxCreditLimit IS NOT NULL
 // CUSTOMERS $CUSTOMERS. , $CUSTOMERS.MaxCreditLimit , MxCrdtLmt= $CUSTOMERS.MaxCreditLimit
    FETCH FROM VALID_CREDIT INTO MxCrdtLmt WHERE creditMaxBalance = $CUSTOMERS.MaxCreditLimit AND
storedValue = $CUSTOMERS.CreditCode
   ASSERT $MxCrdtLmt IS NOT NULL
END IF
//NOTE Test COUNT on Attribute Name NumOrdersPaid
ASSERT $CUSTOMERS.NumOrdersPaid IS NOT NULL
IF $CUSTOMERS.NumOrdersPaid IS NOT NULL AND $CUSTOMERS.NumOrdersPaid > 0
// Testing Count $CUSTOMERS.NumOrdersPaid
     ASSERT $CUSTOMERS.NumOrdersPaid = count("ORDERS", "CustNum = $CUSTOMERS.CustNum AND
OrderPaid != false")
END IF
//NOTE Test COUNT on Attribute Name NumOrdersUnpaid
ASSERT $CUSTOMERS.NumOrdersUnpaid IS NOT NULL
IF $CUSTOMERS.NumOrdersUnpaid IS NOT NULL AND $CUSTOMERS.NumOrdersUnpaid > 0
// Testing Count $CUSTOMERS.NumOrdersUnpaid
     ASSERT $CUSTOMERS.NumOrdersUnpaid = count("ORDERS", "CustNum = $CUSTOMERS.CustNum AND
OrderPaid = false")
END IF
```