

## Document Information

This document was automatically generated from an update to the OSCDE (Open Source Care Data Exchange) code package by Odysseas Pentakalos (odysseas at sysnetint dot com). An XMI file and an Enterprise Architect (SparxSystems) 'EAP' file are included as well. (20080602 | Stuart Turner | swturner at ucdavis dot edu)

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## Data Model Documentation

## Data Model Detail

This document provides an overview of the data model. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

### carescience

Type: **Package**  
Package: com  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### data

Type: **Package**  
Package: carescience  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Address

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	address1	int							
	address2	int							
	addressType	int							
	city	int							
	country	int							
	endDate	int						-1L	
	parishCode	int							
	startDate	int						-1L	
	state_Province	int							
	zip	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
Address	Public	documentHeader		
Address	Public	address1 address2 city state zip		
Address	Public	documentHeader address1 address2 city state zip		
Address	Public			
equals	Public	obj		
getAddress1	Public			
getAddress2	Public			
getAddressType	Public			
getCity	Public			
getCountry	Public			
getEndDate	Public			
getParishCode	Public			
getStartDate	Public			
getState	Public			
getZipCode	Public			
hashCode	Public			
setAddress1	Public	newAddress1		
setAddress2	Public	newAddress2		
setAddressType	Public	newAddressType		
setCity	Public	newCity		
setCountry	Public	newCountry		
setEndDate	Public	date		
setParishCode	Public	parishCode		
setStartDate	Public	date		
setState	Public	newState		
setZipCode	Public	newZip		

#### Relationships

Columns	Association	Notes
	Address. TransientObject.	

### DateOfBirth

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	dob	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
DateOfBirth	Public	documentHeader		
DateOfBirth	Public	documentHeader dob		
DateOfBirth	Public	dob		
equals	Public	obj		
getDOB	Public			
hashCode	Public			
isValid	Public			
setDOB	Public	dob		

#### Relationships

Columns	Association	Notes
	DateOfBirth. TransientObject.	

### DocumentHeader

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ackType	int							
	appAckType	int							
	continuationPtr	int							
	eventCode	int							
	messageControlID	int							
	messageStructure	int							
	messageType	int							
	msgDate	int							

	msgSecurity	int							
	receivingApplication	int							
	receivingFacility	int							
	sendingApplication	int							
	sendingFacility	int							
	sequenceNumber	int							
	triggerEvent	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
DocumentHeader	Public			
equals	Public	obj		
getAcceptAckType	Public			
getApplicationAckType	Public			
getContinuationPointer	Public			
getEventCode	Public			
getMessageControlID	Public			
getMessageDate	Public			
getMessageSecurity	Public			
getMessageStructure	Public			
getMessageType	Public			
getReceivingApplication	Public			
getReceivingFacility	Public			
getSendingApplication	Public			
getSendingFacility	Public			
getSequenceNumber	Public			
getTriggerEvent	Public			
isValid	Public			
setAcceptAckType	Public	ack		
setApplicationAckType	Public	app_Ack		
setContinuationPointer	Public	ptr_Val		
setEventCode	Public	eventCode		
setMessageControlID	Public	ID		
setMessageDate	Public	aDate		
setMessageSecurity	Public	security		
setMessageStructure	Public	message_Struct_data		
setMessageType	Public	type_Data		
setReceivingApplication	Public	receivingApp		
setReceivingFacility	Public	receivingFacility		
setSendingApplication	Public	sendingApp		
setSendingFacility	Public	sendingFacility		
setSequenceNumber	Public	seq_Num		
setTriggerEvent	Public	event_Data		

#### Relationships

Columns	Association	Notes
	DocumentHeader. TransientObject.	

#### DomainIdentifier

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	namespaceID	int							
	universalID	int							
	universalIDType	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
DomainIdentifier	Public			
DomainIdentifier	Public	namespaceID		
DomainIdentifier	Public	namespaceID universalID universalIDType		
DomainIdentifier	Public	documentHeader namespaceID universalID universalIDType		
equals	Public	obj		
getNameSpaceID	Public			
getUniversalID	Public			
getUniversalIDType	Public			
hashCode	Public			
isValid	Public			
setNameSpaceID	Public	newNameSpaceID		
setUniversalID	Public	newUniversalID		
setUniversalIDType	Public	new_type		
toString	Public			

#### Relationships

Columns	Association	Notes
	DomainIdentifier. TransientObject.	

#### DriversLicense

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	issueDate	int							
	issuingState	int							
	licenseNumber	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
DriversLicense	Public			
DriversLicense	Public	documentHeader		
DriversLicense	Public	documentHeader licenseNumber issuingState issueDate		
equals	Public	obj		
getIssueDate	Public			
getNumber	Public			
getState	Public			
hashCode	Public			
setIssueDate	Public	date		
setNumber	Public	license		

setState	Public	state		
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#### Relationships

Columns	Association	Notes
	Driver's License. TransientObject.	

#### EmailAddress

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	emailAddress_	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
EmailAddress	Public	documentHeader		
EmailAddress	Public	documentHeader emailAddress		
EmailAddress	Public	obj		
equals	Public	obj		
getEmailAddress	Public	emailAddress		
setEmailAddress	Public	emailAddress		

#### Relationships

Columns	Association	Notes
	EmailAddress. TransientObject.	

#### EthnicGroup

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
EthnicGroup	Public			
EthnicGroup	Public	documentHeader		
EthnicGroup	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	EthnicGroup. PersonDataElement.	

#### EventData

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	eventDate	int							
	eventFacility	int							
	reasonCode	int							
	typeCode	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
getEventDate	Public			
getEventFacility	Public			
getReasonCode	Public			
getTypeCode	Public			
setEventDate	Public	dt		
setEventFacility	Public	eventFacility		
setReasonCode	Public	reasonCode		
setTypeCode	Public	typeCode		

#### Gender

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
Gender	Public			
Gender	Public	documentHeader		
Gender	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	Gender. PersonDataElement.	

#### MaritalStatus

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
MaritalStatus	Public			
MaritalStatus	Public	documentHeader		
MaritalStatus	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	MaritalStatus. PersonDataElement.	

#### MessageHeaderInfo

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ackType	int							
	appAckType	int							
	continuationPtr	int							
	eventCode	int							
	headerDoc	int							

	MESSAGE_STRUCTURE	int						"CM_MSG_TYPE.3"	
	MESSAGE_TYPE	int						"CM_MSG_TYPE.1"	
	msgControlID	int							
	msgDate	int							
	msgSecurity	int							
	receivingApplication	int							
	receivingFacility	int							
	sendingApplication	int							
	sendingFacility	int							
	sequenceNumber	int							
	TRIGGER_EVENT	int						"CM_MSG_TYPE.2"	

#### Constraints

Name	Type	Columns	Initial Code	Notes
createHeaderDocument	Private			
createTextNode	Private	theDoc nodeName nodeValue		
getAcceptAckType	Public			
getApplicationAckType	Public			
getContinuationPointer	Public			
getEventCode	Public			
getMessageControlID	Public			
getMessageDate	Public			
getMessageSecurity	Public			
getMessageStructure	Public			
getMessageType	Public			
getReceivingApplication	Public			
getReceivingFacility	Public			
getSendingApplication	Public			
getSendingFacility	Public			
getSequenceNumber	Public			
getTriggerEvent	Public			
getXMLHeader	Public			
MessageHeaderInfo	Public			
readExternal	Public	in		
setAcceptAckType	Public	ack		
setApplicationAckType	Public	app_Ack		
setContinuationPointer	Public	ptr_Val		
setEventCode	Public	eventCode		
setMessageControlID	Public	ID		
setMessageDate	Public	aDate		
setMessageSecurity	Public	security		
setMessageStructure	Public	message_Struct_data		
setMessageType	Public	type_Data		
setReceivingApplication	Public	receivingApp		
setReceivingFacility	Public	receivingFacility		
setSendingApplication	Public	sendingApp		
setSendingFacility	Public	sendingFacility		
setSequenceNumber	Public	seq_Num		
setTriggerEvent	Public	event_Data		
setXMLHeader	Public			
writeExternal	Public	out		

#### Nationality

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
Nationality	Public	documentHeader		
Nationality	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	Nationality. PersonDataElement	

#### Person

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	addresses	int						new ArrayList()	
	birthPlace	int							
	crap1	EventData						new EventData()	
	crap2	MessageHeaderInfo						new MessageHeaderInfo()	
	dobs	int						new ArrayList()	
	documentHeaders	int						new ArrayList()	
	driversLicenses	int						new ArrayList()	
	emailAddresses	int						new ArrayList()	
	ethnicGroups	int						new ArrayList()	
	expired	int						false	
	genders	int						new ArrayList()	
	isProvider	int						false	
	maidenName	PersonName							
	maritalStatus	int						new ArrayList()	
	names	int						new ArrayList()	
	nameSearchKey	int							
	nationality	int							
	personIds	int						new ArrayList()	
	primaryLanguage	int							
	racos	int						new ArrayList()	
	religions	int						new ArrayList()	
	ssns	int						new ArrayList()	
	telephoneNumbers	int						new ArrayList()	

#### Constraints

Name	Type	Columns	Initial Code	Notes
addAddress	Public	newAddress		
addDateOfBirth	Public	dob		
addDocumentHeader	Public	newDocumentHeader		
addDriversLicense	Public	newDriversLicense		
addEmailAddress	Public	newEmailAddress		
addEthnicGroup	Public	newEthnicGroup		
addGender	Public	newGender		

addMaritalStatus	Public	newMaritalStatus		
addName	Public	newName		
addPersonIdentifier	Public	newPersonIdentifier		
addRace	Public	newRace		
addReligion	Public	newReligion		
addSocialSecurityNumber	Public	ssn		
addTelephoneNumber	Public	newTelephoneNumber		
checkDomain	Public	person		
clearAddresses	Public			
clearDocumentHeaders	Public			
clearDriversLicenses	Public			
clearEmailAddresses	Public			
clearEthnicGroups	Public			
clearGenders	Public			
clearMaritalStatus	Public			
clearNames	Public			
clearPersonIdentifiers	Public			
clearRaces	Public			
clearReligions	Public			
clearTelephoneNumbers	Public			
equals	Public	obj		
getAddresses	Public			
getAttributesByDocumentHeader	Public	docHeader		
getBirthPlace	Public			
getDatesOfBirth	Public			
getDocumentHeaders	Public			
getDriversLicenses	Public			
getEmailAddresses	Public			
getEthnicGroups	Public			
getGenders	Public			
getMaidenName	Public			
getMaritalStatus	Public			
getNames	Public			
getNameSearchKey	Public			
getNationality	Public			
getPersonIdentifiers	Public			
getPrimaryLanguage	Public			
getRaces	Public			
getReligions	Public			
getSocialSecurityNumbers	Public			
getTelephoneNumbers	Public			
hashCode	Public			
isExpired	Public			
isProvider	Public			
isValid	Public			
printDetails	Public			
removeAddress	Public	address		
removeDateOfBirth	Public	dob		
removeDocumentHeader	Public	documentHeader		
removeDriversLicense	Public	driversLicense		
removeEmailAddress	Public	emailAddress		
removeEthnicGroup	Public	ethnicGroup		
removeGender	Public	gender		
removeMaritalStatus	Public	mStatus		
removeName	Public	name		
removePersonIdentifier	Public	personId		
removeRace	Public	race		
removeReligion	Public	religion		
removeSocialSecurityNumber	Public	ssn		
removeTelephoneNumber	Public	telephoneNumber		
setBirthPlace	Public	newBirthPlace		
setExpired	Public	value		
setMaidenName	Public	name		
setNameSearchKey	Public	newNameSearchKey		
setNationality	Public	newNationality		
setPrimaryLanguage	Public	newPrimaryLanguage		
setProvider	Public	value		
updatePerson	Public	person		

Relationships			
Columns	Association	Notes	
	Person, TransientObject.		

## PersonDataElement

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Columns									
PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	createdDate	int							
	expired	int							
	expiredDate	int							
	sizeOfValue	int							
	value	int							

Constraints				
Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getCreatedDate	Public			
getExpiredDate	Public			
getSizeOfValue	Public			
getValue	Public			
hashCode	Public			
isExpired	Public			
setCreatedDate	Public	newCreatedDate		
setExpired	Public	newExpired		
setExpiredDate	Public	newExpiredDate		
setSizeOfValue	Public	newSizeOfValue		
setValue	Public	newValue		

Relationships		
Columns	Association	Notes

	PersonDataElement. TransientObject.		
	Religion PersonDataElement.		
	Race. PersonDataElement.		
	Nationality PersonDataElement.		
	MaritalStatus. PersonDataElement.		
	Gender. PersonDataElement.		
	EthnicGroup. PersonDataElement.		

### PersonIdentifier

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	assigningAuthority	DomainIdentifier							
	assigningFacility	DomainIdentifier							
	corpid	int							
	effectiveDate	int						-1	
	expirationDate	int						-1	
	id	int							
	identifierTypeCode	int							
	patientConsent	int						true	
	updated_corpid	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getAssigningAuthority	Public			
getAssigningFacility	Public			
getCorpid	Public			
getEffectiveDate	Public			
getExpirationDate	Public			
getId	Public			
getIdentifierTypeCode	Public			
getPatientConsent	Public			
getUpdatedCorpid	Public			
hashCode	Public			
isValid	Public			
PersonIdentifier	Public			
PersonIdentifier	Public	id assigningAuthority assigningFacility identifierTypeCode		
PersonIdentifier	Public	documentHeader id assigningAuthority assigningFacility identifierTypeCode		
setAssigningAuthority	Public	newAssigningAuthority		
setAssigningFacility	Public	newAssigningFacility		
setCorpid	Public	newId		
setEffectiveDate	Public	date		
setExpirationDate	Public	date		
setId	Public	newId		
setIdentifierTypeCode	Public	newIdentifierTypeCode		
setPatientConsent	Public	patientConsent		
setUpdatedCorpid	Public	updatedCorpid		

#### Relationships

Columns	Association	Notes
	PersonIdentifier. TransientObject.	

### PersonName

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	alias	int							
	degree	int							
	endDate	int						-1	
	firstName	int							
	lastName	int							
	nameTypeCode	int							
	nameTypeRepresentationCode	int							
	prefix	int							
	secondName	int							
	startDate	int						-1	
	suffix	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getCleanName	Public			
getDegree	Public			
getEndDate	Public			
getFirstName	Public			
getLastName	Public			
getName	Public			
getNameRepresentationCode	Public			
getNameTypeCode	Public			
getPrefix	Public			
getSearchKey	Public			
getSecondName	Public			
getStartDate	Public			
getSuffix	Public			
hashCode	Public			
isAlias	Public			
isValid	Public			
PersonName	Public	documentHeader		
PersonName	Public	lastName firstName secondName		
PersonName	Public	documentHeader lastName firstName secondName		
PersonName	Public			
setAlias	Public	value		
setDegree	Public	newDegree		
setEndDate	Public	date		

setFirstName	Public	firstName		
setLastName	Public	newLastName		
setNameRepresentationCode	Public	newNameRepresentationCode		
setNameTypeCode	Public	newNameTypeCode		
setPrefix	Public	newPrefix		
setSecondName	Public	newSecondName		
setStartDate	Public	date		
setSuffix	Public	newSuffix		

#### Relationships

Columns	Association	Notes
	PersonName. TransientObject	

#### PersonReview

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	createDt	int						null	
	descr	int							
	domainId	int							
	id	int						0	
	personIds	int						null	
	userId	int						"ICS"	

#### Constraints

Name	Type	Columns	Initial Code	Notes
addPerson	Public	person		
addPerson	Public	personId		
addPersons	Public	persons		
addPersons	Public	persons		
getCreateDate	Public			
getDescr	Public			
getDomainId	Public			
getId	Public			
getPersons	Public			
getUserId	Public			
PersonReview	Public	persons descr userId domainId		
PersonReview	Public			
PersonReview	Public	persons descr userId domainId		
setCreateDate	Public	createDt		
setDescr	Public	descr		
setDomainId	Public	domainId		
setId	Public	id		
setPersons	Public	persons		
setPersons	Public	persons		
setUserId	Public	userId		

#### Race

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
Race	Public			
Race	Public	documentHeader		
Race	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	Race. PersonDataElement	

#### Religion

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
Religion	Public			
Religion	Public	documentHeader		
Religion	Public	documentHeader value		

#### Relationships

Columns	Association	Notes
	Religion. PersonDataElement	

#### SearchKeyGenerator

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	INSTANCE	SearchKeyGenerator						new SearchKeyGenerator()	
	NAME_SEARCH_SERVICE	int						"name1 "	
	SERVICE	int						new String(NAME_SEARCH_ SERVICE)	

#### Constraints

Name	Type	Columns	Initial Code	Notes
generateKey	Public	s		
generateMultipleKeys	Public	s		



generateSearchRange	Public	s		
getInstance	Public			
SearchKeyGenerator	Public			

## SearchRange

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	end	int							
	start	int							

## Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getEnd	Public			
getStart	Public			
setEnd	Public	newEnd		
setStart	Public	newStart		
toString	Public			

## SocialSecurityNumber

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ssn	int							

## Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getSSN	Public			
hashCode	Public			
isValid	Public			
setSSN	Public	ssn		
SocialSecurityNumber	Public			
SocialSecurityNumber	Public	documentHeader		
SocialSecurityNumber	Public	documentHeader ssn		
SocialSecurityNumber	Public	ssn		

## Relationships

Columns	Association	Notes
	SocialSecurityNumber. TransientObject.	

## TelephoneNumber

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	areaCode	int							
	countryCode	int							
	extension	int							
	phoneNumber	int							
	telecomUseCode	int							

## Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getAreaCode	Public			
getCountryCode	Public			
getExtension	Public			
getNonNullString	Private	s		
getPhoneNumber	Public			
getTelecomUseCode	Public			
hashCode	Public			
setAreaCode	Public	areaCode		
setCountryCode	Public	countryCode		
setExtension	Public	extension		
setPhoneNumber	Public	phoneNumber		
setTelecomUseCode	Public	telUseCode		
TelephoneNumber	Public	documentHeader areaCode phoneNumber		
TelephoneNumber	Public	areaCode phoneNumber		

## Relationships

Columns	Association	Notes
	TelephoneNumber. TransientObject.	

## TransientObject

Database: Java, Stereotype: , Package: data  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	documentHeader	DocumentHeader							
	oid	int							

## Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
getDocumentHeader	Public			
getOid	Public			
getOidInt	Public	documentHeader		
setDocumentHeader	Public			
setOid	Public	oid		
setOid	Public	id		

## Relationships

Columns	Association	Notes
	PersonDataElement. TransientObject TelephoneNumber. TransientObject.	
	SocialSecurityNumber. TransientObject.	

	PersonIdentifier. TransientObject.		
	Address. TransientObject.		
	Person. TransientObject.		
	EmailAddress. TransientObject.		
	DriversLicense. TransientObject.		
	DomainIdentifier. TransientObject.		
	DocumentHeader. TransientObject.		
	DateOfBirth. TransientObject.		
	PersonName. TransientObject.		

#### ics

Type: **Package**  
Package: carescience  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### IcsStartup

Database: Java, Stereotype: , Package: ics  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
init	Public	config		

#### ccs

Type: **Package**  
Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### AttributeComparator

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	MEAN_SCORING	int						1	
	MEDIAN_SCORING	int						2	
	MODE_SCORING	int						3	
	NAME_NAME_SEARCH_SERVICE	int						"name1 "	
	scoringMethod	int						MEDIAN_SCORING	
	STREET_NAME_SEAR CH_SERVICE	int						"street"	

#### Constraints

Name	Type	Columns	Initial Code	Notes
alfaCompare	Public	x y		
compare	Private	x y service		
compareDates	Public	date1 date2		
compareDates	Public	date1 date2		
compareDates	Public	date1 date2		
compareDates	Public	date1 date2		
compareNames	Public	name1 name2		
comparePhoneNumbers	Public	phone1 phone2		
compareStreets	Public	street1 street2		
getScoringMethod	Public			
numCompare	Public	x y		
setScoringMethod	Public	method		

#### BatchLoader

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	DUPLICATE_DETAIL_F ILE	int						"duplicates_detail.txt"	
	DUPLICATE_FILE	int						"duplicates.txt"	
	duplicatesDetailOut	int						Integer.MAX_VALUE	
	pids	PersonIdService						null	
	SIMILAR_DETAIL_FILE	int						"similar_detail.txt"	
	similarDetailOut	int							
	TIME_FILE	int						"time.txt"	

#### Constraints

Name	Type	Columns	Initial Code	Notes
duplicateFoundDuringAdd	Public	duplicate person		
expiredPersonFoundDuringAdd	Public	person		
initializeReader	Package	fileName		
load	Protected	fileName		
similarFoundDuringAdd	Public	similar person		
toString	Protected	person		

#### Relationships

Columns	Association	Notes
	Sbmfcbatchloader. BatchLoader. RMIBatchloader. BatchLoader. CSBatchloader. BatchLoader.	

#### CSBatchLoader

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
CSBatchLoader	Public			
initializeReader	Package	fileName		
main	Public	args		
main	Public	args		

#### Relationships

Columns	Association	Notes
	CSBatchLoader. BatchLoader.	

#### CorrelationSystem

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ALMOST_EXACT_MATCH	int						0.99	
	APPROXIMATE	int						0.89	
	ATTR_ADDRESS	int						new Integer(4)	
	ATTR_BIRTHPLACE	int						new Integer(5)	
	ATTR_DLNUMBER	int						new Integer(8)	
	ATTR_DOB	int						new Integer(3)	
	ATTR_GENDER	int						new Integer(2)	
	ATTR_MAIDENNAME	int						new Integer(6)	
	ATTR_NAME	int						new Integer(0)	
	ATTR_PHONE	int						new Integer(7)	
	ATTR_SSN	int						new Integer(1)	
	comparator	AttributeComparator						new AttributeComparator()	
	EMPTY_LIST	int						Collections.unmodifiableList(new ArrayList())	
	EMPTY_PERSON	Person						new Person()	
	EXACT_MATCH	int						1.0	
	listeners	int						new ArrayList()	
	log	int						Logger.getLogger("ICS")	
	neuralNetwork	NeuralNetwork						null	
	NO_MATCH	int						0.0	
	searchKeyGen	SearchKeyGenerator						SearchKeyGenerator.getInstances()	
	SIMILAR	int						0.6	
	times	int						null	
	TRAIT_COUNT	int						9	
	UNKNOWN	int						0.5	

#### Constraints

Name	Type	Columns	Initial Code	Notes
addListener	Public	listener		
buildCorrelationVector	Public	person candidate		
calculateAddressCor	Private	address1 address2		
calculateAddressesCor	Private	person candidate		
calculateBirthPlaceCor	Private	address1 address2		
calculateBirthPlaceCor	Private	address1 address2		
calculateDOBCor	Private	dob1 dob2		
calculateDOBsCor	Private	person candidate		
calculateDriverLicenseCor	Private	dln1 dln2		
calculateDriverLicensesCor	Private	person candidate		
calculateExactStringCor	Private	s1 s2		
calculateGenderCor	Private	g1 g2		
calculateGendersCor	Private	person candidate		
calculateNameCor	Private	name1 name2 search		
calculateNamesCor	Private	person candidate search		
calculateSSNCor	Private	ssn1 ssn2		
calculateSSNsCor	Private	person candidate		
calculateTelephoneCor	Private	phone1 phone2		
calculateTelephonesCor	Private	person candidate		
comparePersons	Public	person match		
CorrelationSystem	Public	trace		
CorrelationSystem	Public			
duplicateFoundStateChange	Private	similar person		
expiredFoundStateChange	Private	person		
findMatches	Private	person people accuracy maxMatches attrs		
findMatches	Private	person people accuracy maxMatches attrs		
getNonNullString	Private	s		
initializeNeuralNetwork	Private	filename		
lookUp	Public	person confidence maxMatches		
lookUpEnd	Public	obj		

lookUpNext	Public	obj maxMatches		
lookUpStart	Public	person confidence		
matchByAttributes	Private	person candidate accuracy attrs		
matchByAttributes	Private	person candidate accuracy attrs		
query	Public	person confidence		
queryDone	Private	iter		
queryDone	Private	iter		
queryPerson	Private	person search		
removeListener	Public	listener		

#### CorrelationSystemException

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
CorrelationSystemException	Public			
CorrelationSystemException	Public	message		
CorrelationSystemException	Public	throwable		
CorrelationSystemException	Public	throwable		

##### Relationships

Columns	Association	Notes
	CorrelationSystemException. IsIfException.	

#### HyperbolicTangent

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
calculate	Public	x		
derivative	Public	x		
getType	Public			

#### Linear

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
calculate	Public	x		
derivative	Public	x		
getType	Public			

#### LogisticFunction

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
calculate	Public	x		
derivative	Public	x		
getType	Public			

#### LookUpObj

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	attrsList	int							
	confidence	int							
	iter	int							
	person	Person							

##### Constraints

Name	Type	Columns	Initial Code	Notes
finalize	Public			
LookUpObj	Public	person iter confidence attrsList		
LookUpObj	Public	person iter confidence attrsList		

#### NeuralNetwork

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	activationFunctions	ActivationFunction							
	architecture	int							
	epoch	int							
	HYPERBOLIC_TANGENT	int						2	
	learningRate	int							
	LINEAR	int						0	
	LOGISTIC_FUNCTION	int						1	
	outputs	int							
	random	int						new Random()	
	randomizeSamples	int							
	weights	int							

##### Constraints

Name	Type	Columns	Initial Code	Notes
------	------	---------	--------------	-------

buildActivationFunction	Private	code		
calculateError	Public	count inputs targetOutputs		
calculateError	Public	count inputs targetOutputs		
calculateOutputs	Public	f		
calculateOutputs	Public	f		
generateRandomNumber	Private			
getEpoch	Public			
getHiddenActivationFunction	Public			
getLearningRate	Public			
getNeuronCount	Public	layer		
getOutputActivationFunction	Public			
getRandomizeSamples	Public			
NeuralNetwork	Public	inputCount hiddenCount outputCount		
randomizeSamples	Private	count samples targetOutputs		
randomizeSamples	Private	count samples targetOutputs		
randomizeWeights	Private			
setHiddenActivationFunction	Public	type		
setLearningRate	Public	rate		
setOutputActivationFunction	Public	type		
setRandomizeSamples	Public	value		
swap	Private	a i j		
swap	Private	a i j		
train	Public	iterations count inputs targetOutputs accuracy		
train	Public	iterations count inputs targetOutputs accuracy		
train	Private	count inputs targetOutputs		
train	Private	count inputs targetOutputs		

#### NeuralNetworkTrainer

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	COMMENT	int						"r"	
	currentLine	int							
	currentSample	int							
	DEFAULT_EPOCHS	int						5000	
	DEFAULT_HIDDEN_AF	int						NeuralNetwork.HYPERBOLIC_TANGENT	
	DEFAULT_HIDDEN_COUNT	int						20	
	DEFAULT_LEARNING_RATE	int						0.1	
	DEFAULT_OUTPUT_AF	int						NeuralNetwork.LINEAR	
	DEFAULT_TARGET_ERROR	int						0.0001	
	epochs	int						DEFAULT_EPOCHS	
	hiddenActivationFunction	int						DEFAULT_HIDDEN_AF	
	hiddenCount	int						DEFAULT_HIDDEN_COUNT	
	inputCount	int							
	inputs	int							
	learningRate	int						DEFAULT_LEARNING_RATE	
	outputActivationFunction	int						DEFAULT_OUTPUT_AF	
	outputCount	int							
	outputs	int							
	targetError	int						DEFAULT_TARGET_ERROR	

#### Constraints

Name	Type	Columns	Initial Code	Notes
buildInputArray	Private	samples		
buildOutputArray	Private	samples		
getEpochs	Public			
getHiddenActivationFunction	Public			
getHiddenCount	Public			
getOutputActivationFunction	Public			
getTargetError	Public	args		
main	Public	args		
main	Public	args		
setEpochs	Public	newEpochs		
setHiddenActivationFunction	Public	type		
setHiddenCount	Public	newHiddenCount		
setOutputActivationFunction	Public	type		
setTargetError	Public	newTargetError		
train	Public	file		
train	Public	samples		
train	Public	file		

#### RMIBatchLoader

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
initializeReader	Package	fileName		
main	Public	args		
main	Public	args		
RMIBatchLoader	Public			

#### Relationships

Columns	Association	Notes
	RMIBatchLoader. BatchLoader.	

#### Sample

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	inputs	int							
	outputs	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
equals	Public	obj		
equals	Public	obj		
getInputs	Public			
getOutputs	Public			
Sample	Public	inputCount outputCount		
Sample	Public	inputs outputs		
Sample	Public	inputs outputs		
setInputs	Public	newInputs		
setInputs	Public	newInputs		
setOutputs	Public	newOutputs		
setOutputs	Public	newOutputs		
toString	Public			

#### SampleReader

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	COMMENT	int						"#"	
	currentLine	int							
	currentSample	int							
	inputCount	int							
	outputCount	int							
	reader	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
getCurrentLineNumber	Package			
getCurrentSampleNumber	Package			
getInputCount	Package			
getOutputCount	Package			
readAllSamples	Package			
readSample	Private			
SampleReader	Public	fileName		
SampleReader	Public	file		
SampleReader	Public	file		

#### ShmfcBatchLoader

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
initializeReader	Package	fileName		
main	Public	args		
main	Public	args		

#### Relationships

Columns	Association	Notes
	ShmfcBatchLoader. BatchLoader.	

#### Stats

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
avgerr	Public	numbers		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	x		
avgerr	Public	numbers		
cor	Public	x y		
cor	Public	numbers1 numbers2		
cor	Public	x y		
cor	Public	x y		

cor	Public	x y		
cor	Public	x y		
cor	Public	x y		
cor	Public	x y		
cor	Public	x y		
cor	Public	numbers1 numbers2		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
cov	Public	x y		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
freq	Public	numbers number		
geometricMean	Public	y		
geometricMean	Public	y		
geometricMean	Public	y		
geometricMean	Public	numbers		
geometricMean	Public	y		
geometricMean	Public	y		
geometricMean	Public	numbers		
geometricMean	Public	y		
geometricMean	Public	y		
geometricMean	Public	y		
harmonicMean	Public	numbers		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	numbers		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	y		
harmonicMean	Public	y		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
iqr	Public	numbers		
isOdd	Private	number		
kurtosis	Public	x		
kurtosis	Public	numbers		
kurtosis	Public	numbers		

kurtosis	Public	x		
kurtosis	Public	x		
kurtosis	Public	x		
kurtosis	Public	x		
kurtosis	Public	x		
kurtosis	Public	x		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
lowerQuartile	Public	numbers		
main	Public	args		
main	Public	args		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
max	Public	numbers		
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max	Public	numbers		
mean	Public	numbers		
mean	Public	x		
mean	Public	x		
mean	Public	x		
mean	Public	x		
mean	Public	numbers		
mean	Public	x		
mean	Public	x		
mean	Public	x		
mean	Public	x		
mean	Public	x		
median	Public	numbers		
median	Public	x		
median	Public	x		
median	Public	x		
median	Public	x		
median	Public	x		
median	Public	x		
median	Public	x		
median	Public	numbers		
median	Public	x		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
min	Public	numbers		
mode	Public	numbers		
mode	Public	x		
mode	Public	x		
mode	Public	x		
mode	Public	x		
mode	Public	x		
mode	Public	x		
mode	Public	numbers		
mode	Public	x		
mode	Public	x		
range	Public	x		
range	Public	x		
range	Public	x		



[illegible]

sumOfSqs	Private	numbers		
sumOfSqs	Private	numbers		
toArray	Private	numbers		
toArray	Private	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
trimmedMean	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
upperQuartile	Public	numbers		
var	Public	numbers		
var	Public	numbers		
var	Public	x		
var	Public	numbers		
var	Public	numbers		
var	Public	numbers		
var	Public	x		
var	Public	numbers		
var	Public	numbers		
var	Public	numbers		
varp	Public	x		
varp	Public	x		

TrainingSamples

Database: Java, Stereotype: , Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Columns

PK	Name	Type	Not Null	Unique	Len	Pre	Scale	Init	Notes
	inputCount	int							
	outputCount	int							
	samples	int							

Constraints

Name	Type	Columns	Initial Code	Notes
add	Public	s		
get	Public	index		
getInputCount	Public			
getOutputCount	Public			
getSamples	Public			
iterator	Public			
remove	Public	s		
setInputCount	Public	newInputCount		
setOutputCount	Public	newOutputCount		
setSamples	Public	newSamples		
setSamples	Public	newSamples		
size	Public			
toArray	Public			
TrainingSamples	Public			

Activation Function

Database: Java, Stereotype: «interface», Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Constraints

Name	Type	Columns	Initial Code	Notes
calculate	Package	x		
derivative	Package	x		
getType	Package			

Relationships

Columns	Association	Notes
	SigmoidFunction. ActivationFunction.	

BackpropagationNetwork

Database: Java, Stereotype: «interface», Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

CorrelationSystemListener

Database: Java, Stereotype: «interface», Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Constraints

Name	Type	Columns	Initial Code	Notes
------	------	---------	--------------	-------

duplicateFoundDuringAdd	Package	duplicate person		
expiredPersonFoundDuringAdd	Package	person		
similarFoundDuringAdd	Package	similar person		

### SigmoidFunction

Database: Java, Stereotype: «interface», Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Relationships

Columns	Association	Notes
	SigmoidFunction. ActivationFunction.	

### db

Type: **Package**  
Package: ccs  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### DatabaseException

Database: Java, Stereotype: , Package: db  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Constraints

Name	Type	Columns	Initial Code	Notes
DatabaseException	Public			
DatabaseException	Public	message		
DatabaseException	Public	throwable		
DatabaseException	Public	throwable		

### Relationships

Columns	Association	Notes
	DatabaseException. lexException.	

### DatabaseServicesFactory

Database: Java, Stereotype: , Package: db  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Constraints

Name	Type	Columns	Initial Code	Notes
DatabaseServicesFactory	Public			
getInstance	Public			

### QueryParam

Database: Java, Stereotype: , Package: db  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	attributeType	int							
	value	int							

### Constraints

Name	Type	Columns	Initial Code	Notes
getAttributeType	Public			
getValue	Public			
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
QueryParam	Public	attributeType value		
toString	Public			

### QueryParamList

Database: Java, Stereotype: , Package: db  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	type	int						1	
	AND_LIST	int						1	
	CONJUNCTION_LIST	int						0	
	DISJUNCTION_LIST	int						0	
	OR_LIST	int						0	

### Constraints

Name	Type	Columns	Initial Code	Notes
add	Public	attributeType value		
add	Public	attributeType value		
add	Public	attributeType value		
add	Public	param		
add	Public	params		
add	Public	attributeType value		
add	Public	attributeType value		
add	Public	attributeType value		
create	Public			
getType	Public			
QueryParamList	Public			
QueryParamList	Public	type		
toString	Public			

### AttributeType

Database: Java, Stereotype: «interface», Package: db  
Detail:  
Notes: Created on 6/4/2008. Last modified on 6/4/2008.

Columns PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	AA_NAMESPACE_ID	int						new Integer(19)	
	ADDRESS	int						new Integer(4)	
	AF_NAMESPACE_ID	int						new Integer(20)	
	ALIAS_SEARCH_KEY	int						new Integer(8)	
	CORPORATE_ID	int						new Integer(21)	
	DRIVERS_LICENSE_NUMBER	int						new Integer(3)	
	EMAIL	int						new Integer(5)	
	ETHNIC_GROUP	int						new Integer(10)	
	FIRST_NAME_ALIAS	int						new Integer(18)	
	GENDER	int						new Integer(11)	
	LAST_NAME	int						new Integer(1)	
	LAST_NAME_ALIAS	int						new Integer(6)	
	MARITAL_STATUS	int						new Integer(12)	
	NAME_SEARCH_KEY	int						new Integer(7)	
	PERSON_IDENTIFIER	int						new Integer(9)	
	PERSON_OID	int						new Integer(17)	
	PHONE_NUMBER	int						new Integer(16)	
	RACE	int						new Integer(14)	
	RELIGION	int						new Integer(15)	
	SOCIAL_SECURITY_NUMBER	int						new Integer(2)	
	SOURCE_DOCUMENT	int						new Integer(13)	

### DatabaseServices

Database: Java, Stereotype: «interface», Package: db  
Detail:  
Notes: Created on 6/4/2008. Last modified on 6/4/2008.

Columns PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ADDRESS	int						"Address"	
	BIRTH_PLACE	int						"BirthPlace"	
	DATE_OF_BIRTH	int						"DateOfBirth"	
	DOCUMENT_HEADER	int						"DocumentHeader"	
	DRIVERS_LICENSE	int						"DriversLicense"	
	EMAIL_ADDRESS	int						"EmailAddress"	
	ETHNIC_GROUP	int						"EthnicGroup"	
	EXPIRED	int						"Expired"	
	GENDER	int						"Gender"	
	MAIDEN_NAME	int						"MaidenName"	
	MARITAL_STATUS	int						"MaritalStatus"	
	NATIONALITY	int						"Nationality"	
	NOTES	int						"Notes"	
	OID	int						"OID"	
	PATIENT_CONSENT	int						"PatientConsent"	
	PERSON_IDENTIFIER	int						"PersonIdentifier"	
	PERSON_NAME	int						"PersonName"	
	PRIMARY_LANGUAGE	int						"PrimaryLanguage"	
	RACE	int						"Race"	
	RELIGION	int						"Religion"	
	SOCIAL_SECURITY	int						"SocialSecurity"	
	TELEPHONE_NUMBER	int						"TelephoneNumber"	

### Constraints

Name	Type	Columns	Initial Code	Notes
addListener	Public	listener		
addPerson	Public	person		
mergePersons	Public	persons		
mergePersons	Public	persons		
mergePersons	Public	persons		
query	Public	attributeType value usePreparedStatement		
query	Public	attributeType value		
query	Public	attributeType value		
query	Public	attributeType value usePreparedStatement		
query	Public	params usePreparedStatement		
query	Public	params		
queryIterator	Public	params usePreparedStatement		
queryIterator	Public	params		
releaseIterator	Public	personIterator		
releaseIterator	Public	personIterator		
removeListener	Public	listener		
removeObject	Public	obj		
removeObject	Public	obj		
removePerson	Public	person		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
updateEID	Public	domain facility MRN newMRN oldEID newEID		
updatePerson	Public	person		

### DatabaseServicesListener

Database: Java, Stereotype: «interface», Package: db  
Detail:  
Notes: Created on 6/4/2008. Last modified on 6/4/2008.

Constraints	Name	Type	Columns	Initial Code	Notes
	personAdded	Package	person		
	personRemoved	Package	person		

personsMerged	Package	basePerson mergePerson		
personSplit	Package	originalPerson newPerson		
personUpdated	Package	person		

#### jdbc

Type: **Package**  
Package: db  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### DatabaseServicesJdbc

Database: Java, Stereotype: -, Package: jdbc  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	documentheadersql	DocumentHeaderSql						DocumentHeaderSql.getInstance()	
	icssql	IcsSqlXML						IcsSqlXML.getInstance()	
	instance	DatabaseServicesJdbc						new DatabaseServicesJdbc()	
	listeners	int						new ArrayList()	
	log	int						Logger.getLogger("ICS")	
	personinfosql	PersonInfoSql						PersonInfoSql.getInstance()	
	personsq	PersonSql						PersonSql.getInstance()	
	SEL_ORD_AA_NAMES PACE_ID	int						51	
	SEL_ORD_AA_UNIV_ID	int						49	
	SEL_ORD_AA_UNIV_ID _TYPE_CD	int						50	
	SEL_ORD_ACK_TYPE	int						6	
	SEL_ORD_ADDRESS_1	int						36	
	SEL_ORD_ADDRESS_2	int						37	
	SEL_ORD_AF_NAMESP ACE_ID	int						54	
	SEL_ORD_AF_UNIV_ID	int						52	
	SEL_ORD_AF_UNIV_ID _TYPE_CD	int						53	
	SEL_ORD_APP_ACK_T YPE	int						7	
	SEL_ORD_BIRTH_PLA CE	int						79	
	SEL_ORD_BIRTHDATE	int						21	
	SEL_ORD_CITY	int						38	
	SEL_ORD_CONSENT	int						48	
	SEL_ORD_CONT_PTR	int						5	
	SEL_ORD_CORPORAT E_ID	int						82	
	SEL_ORD_COUNTRY	int						41	
	SEL_ORD_DEGREE	int						29	
	SEL_ORD_DH_ID	int						80	
	SEL_ORD_DRV_ISSUE_ DATE	int						65	
	SEL_ORD_DRV_ISSUE_ STATE	int						64	
	SEL_ORD_DRV_LIC_N UM	int						63	
	SEL_ORD_EMAIL	int						60	
	SEL_ORD_ETHNIC_CD	int						66	
	SEL_ORD_EVENT_CD	int						13	
	SEL_ORD_EXPIRED	int						22	
	SEL_ORD_FNAME	int						25	
	SEL_ORD_GENDER	int						61	
	SEL_ORD_ID_TYPE_CD	int						45	
	SEL_ORD_ISPROVIDER	int						23	
	SEL_ORD_LNAME	int						24	
	SEL_ORD_MAIDEN_DE GREE	int						75	
	SEL_ORD_MAIDEN_FN AME	int						71	
	SEL_ORD_MAIDEN_LN AME	int						70	
	SEL_ORD_MAIDEN_NA ME_TYPE_CD	int						76	
	SEL_ORD_MAIDEN_NA ME_TYPE_REP_CD	int						77	
	SEL_ORD_MAIDEN_PR FFIX	int						74	
	SEL_ORD_MAIDEN_SE ARCH_KEY	int						78	
	SEL_ORD_MAIDEN_SE CNAME	int						72	
	SEL_ORD_MAIDEN_SU FFIX	int						73	
	SEL_ORD_MARITAL_S TATUS	int						62	
	SEL_ORD_MSG_CTRL_ ID	int						3	
	SEL_ORD_MSG_DATE	int						2	
	SEL_ORD_MSG_SECU RITY	int						8	
	SEL_ORD_MSG_STRU CTURE	int						16	
	SEL_ORD_MSG_TYPE	int						14	
	SEL_ORD_NAMESEAR CHKEY	int						18	
	SEL_ORD_NAMETYPE_ CD	int						30	
	SEL_ORD_NAMETYPE REP_CD	int						31	
	SEL_ORD_NATIONALIT Y_CD	int						17	
	SEL_ORD_PA_ENDDAT E	int						44	
	SEL_ORD_PA_STARTD ATE	int						43	
	SEL_ORD_PARISH_CD	int						42	
	SEL_ORD_PERSON_ID	int						1	
	SEL_ORD_PERSON_IN FO_ID	int						81	
	SEL_ORD_PH_AREA_C D	int						57	
	SEL_ORD_PH_COUNTR Y_CD	int						56	
	SEL_ORD_PH_EXT	int						59	
	SEL_ORD_PH_NUM	int						58	
	SEL_ORD_PH_USE_CD	int						55	
	SEL_ORD_PI_EFF_DAT E	int						46	
	SEL_ORD_PI_EXP_DAT E	int						47	
	SEL_ORD_PI_IDENTIFI ER	int						69	
	SEL_ORD_PN_ALIAS	int						35	
	SEL_ORD_PN_ENDDAT E	int						34	
	SEL_ORD_PN_SEARCH KEY	int						32	
	SEL_ORD_PN_STARTD ATE	int						33	
	SEL_ORD_PREFIX	int						28	
	SEL_ORD_PRIMLANG	int						19	
	SEL_ORD_RACE_CD	int						68	
	SEL_ORD_REC_APP	int						9	
	SEL_ORD_REC_FAC	int						10	

	SEL_ORD_RELIGION_CD	int						67	
	SEL_ORD_SECNAME	int						26	
	SEL_ORD_SEND_APP	int						11	
	SEL_ORD_SEND_FAC	int						12	
	SEL_ORD_SEQ_NUM	int						4	
	SEL_ORD_SSN	int						20	
	SEL_ORD_STATEPROV	int						39	
	SEL_ORD_SUFFIX	int						27	
	SEL_ORD_TRIGGER_EVENT	int						15	
	SEL_ORD_UPDATED_CORPORATE_ID	int						83	
	SEL_ORD_ZIP	int						40	

#### Constraints

Name	Type	Columns	Initial Code	Notes
addDocumentHeader	Private	p dhId msgDate msgCtrlId seqNum contFtr ackType appAckType msgSecurity recApp recFac sendApp sendFac eventCd msgType triggerEvent msgStructure		
addDriversLicense	Private	p dh drvLicNumber issueState issueDate personInfoId		
addEthnicGroup	Private	p dh grpCd personInfoId		
addListener	Public	listener		
addPerson	Public	person		
addPersonAddress	Private	p dh add1 add2 cityProv state zip country parishCd startDate endDate personInfoId		
addPersonDOB	Private	p dh dob		
addPersonDOB	Private	p dh dob		
addPersonEmail	Private	p dh email personInfoId		
addPersonGender	Private	p dh gender personInfoId		
addPersonIdentifier	Private	p dh id idTypeCd crlDate expDate coesent assignauth_univId assignauth_univIdTypeCd assignauth_nameSpaceId assignfac_univId assignfac_univIdTypeCd assignfac_nameSpaceId personInfoId corporatedId updated_corporatedId		
addPersonMaritalStatus	Private	p dh stat personInfoId		
addPersonName	Private	p dh lname fname secname suffix prefix degree nameTypeCd nameTypeRepCd searchKey startDate endDate alias personInfoId		
addPersonPhone	Private	p dh useCd countryCd areaCd num ext personInfoId		
addPersonSSN	Private	p dh ssn		
addRace	Private	p dh raceCd personInfoId		
addReligion	Private	p dh relCd personInfoId		
batchMerge	Private	batchfile		
clear	Public			
DatabaseServicesJdbc	Public			
getInstance	Public			

merge	Private	args		
merge	Private	args		
mergePersons	Public	persons		
mergePersons	Public	persons		
personAdded	Protected	person		
personRemoved	Protected	person		
personsMerged	Protected	basePerson mergePerson		
personSplit	Protected	originalPerson newPerson		
personUpdated	Protected	person		
query	Public	attributeType value usePreparedStatement		
query	Public	attributeType value		
query	Public	params		
query	Public	attributeType value usePreparedStatement		
query	Public	attributeType value		
query	Public	params usePreparedStatement		
queryIterator	Public	params usePreparedStatement		
queryIterator	Public	params		
releaseIterator	Public	personIterator		
releaseIterator	Public	personIterator		
removeListener	Public	listener		
removeObject	Public	obj		
removeObject	Public	obj		
removePerson	Public	person		
splitPerson	Public	origPerson docHeaders		
splitPerson	Public	origPerson docHeaders		
updateEID	Public	domain facility oldMRN newMRN oldEID newEID		
updatePerson	Public	updates		
updatePerson	Public	person		
updatePerson	Public	updates		

#### PersonIteratorJdbc

Database: Java, Stereotype: , Package: jdbc  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Columns PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	conn	int						null	
	lastOid	int						null	
	moreResults	int						false	
	rs	int						null	
	st	int						null	

Constraints	Name	Type	Columns	Initial Code	Notes
	finalize	Public			
	hasNext	Public			
	next	Public			
	PersonIteratorJdbc	Public	conn st rs		
	PersonIteratorJdbc	Public	conn st rs		
	release	Public			
	remove	Public			

#### DocumentHeaderSql

Database: Java, Stereotype: , Package: jdbc  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

Columns	PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
		DH_ORD_ACK_TYPE	int						7	
		DH_ORD_APP_ACK_TY PE	int						8	
		DH_ORD_CONT_PTR	int						6	
		DH_ORD_EVENT_CD	int						14	
		DH_ORD_HD_ID	int						1	
		DH_ORD_MSG_CTRL_I D	int						4	
		DH_ORD_MSG_DATE	int						3	
		DH_ORD_MSG_SECURI TY	int						9	
		DH_ORD_MSG_STRUC TURE	int						17	
		DH_ORD_MSG_TYPE	int						15	
		DH_ORD_PERSON_ID	int						2	
		DH_ORD_REC_APP	int						10	
		DH_ORD_REC_FAC	int						11	
		DH_ORD_SEND_APP	int						12	
		DH_ORD_SEND_FAC	int						13	
		DH_ORD_SEQ_NUM	int						5	
		DH_ORD_TRIGGER_EV ENT	int						16	
		instance	DocumentHeaderSql						new DocumentHeaderSql()	
		log	int						Logger.getLogger("ICS")	
		UPDATEFLD_DH	int						8	

Constraints	Name	Type	Columns	Initial Code	Notes
	deleteDocumentHeader	Public	icsql conn dhId		

deleteDocumentHeaderFromPersonInfo	Public	icssql conn personInfoId		
documentHeaderBuildStmnt	Private	conn sql personId messageDate messageControlID sequenceNumber continuationPointer acceptAckType applicationAckType messageSecurity receivingApplication receivingFacility sendingApplication sendingFacility eventCode messageType triggerEvent messageStructure		
documentHeaderBuildStmnt	Private	conn sql dhId		
documentHeaderBuildStmnt	Private	conn sql dhId personId messageDate messageControlID sequenceNumber continuationPointer acceptAckType applicationAckType messageSecurity receivingApplication receivingFacility sendingApplication sendingFacility eventCode messageType triggerEvent messageStructure		
DocumentHeaderSql	Public			
getInstance	Public			
insertDocumentHeader	Public	icssql conn personId messageDate messageControlID sequenceNumber continuationPointer acceptAckType applicationAckType messageSecurity receivingApplication receivingFacility sendingApplication sendingFacility eventCode messageType triggerEvent messageStructure		
insertDocumentHeader	Public	icssql conn personId updateFields_ updates		

#### PersonInfoSql

Database: Java, Stereotype: , Package: jdbc  
 Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
 Notes:

Columns PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	PersonInfoSql						new PersonInfoSql()	
	log	int						Logger.getLogger("ICS")	
	PI_COLUMN_MAX	int						64	
	PI_ORD_AA_NAMESPA CE_ID	int						45	
	PI_ORD_AA_UNIV_ID	int						43	
	PI_ORD_AA_UNIV_ID_ TYPE_CD	int						44	
	PI_ORD_ADDRESS_1	int						15	
	PI_ORD_ADDRESS_2	int						16	
	PI_ORD_ADDRESS_TY PE_CD	int						42	
	PI_ORD_AF_NAMESPA CE_ID	int						48	
	PI_ORD_AF_UNIV_ID	int						46	
	PI_ORD_AF_UNIV_ID_ TYPE_CD	int						47	
	PI_ORD_ALIAS	int						14	
	PI_ORD_CITY	int						17	
	PI_ORD_CORPORATE_I D	int						52	
	PI_ORD_COUNTRY	int						20	
	PI_ORD_DEGREE	int						8	
	PI_ORD_DH_ID	int						2	
	PI_ORD_DOB	int						51	
	PI_ORD_DRV_LIC_DAT E	int						34	
	PI_ORD_DRV_LIC_NU M	int						32	
	PI_ORD_DRV_LIC_STA TE	int						33	
	PI_ORD_EMAIL	int						29	
	PI_ORD_END_DATE	int						13	
	PI_ORD_ETHNIC_CD	int						35	
	PI_ORD_FNAME	int						4	
	PI_ORD_GENDER	int						30	
	PI_ORD_LNAME	int						3	
	PI_ORD_MARITAL_ST ATUS	int						31	
	PI_ORD_NAME_TYPE_ CD	int						9	
	PI_ORD_NAME_TYPE_ REP_CD	int						10	
	PI_ORD_PA_END_DAT E	int						23	
	PI_ORD_PA_START_D ATE	int						22	
	PI_ORD_PARISH_CD	int						21	
	PI_ORD_PATIENT_CON SENT	int						41	
	PI_ORD_PHONE_AREA CD	int						26	
	PI_ORD_PHONE_COUN TRY_CD	int						25	
	PI_ORD_PHONE_EXT	int						28	
	PI_ORD_PHONE_NUM	int						27	
	PI_ORD_PL EFF_DATE	int						39	
	PI_ORD_PL EXP_DATE	int						40	
	PI_ORD_PL_ID	int						1	
	PI_ORD_PL_IDENTIFIER	int						49	
	PI_ORD_PL_IDENTIFIER CODE	int						38	
	PI_ORD_PREFIX	int						7	
	PI_ORD_RACE_CD	int						37	



	PI_ORD_RELIGION_CD	int						36	
	PI_ORD_SEARCH_KEY	int						11	
	PI_ORD_SECNAME	int						5	
	PI_ORD_SSN	int						50	
	PI_ORD_START_DATE	int						12	
	PI_ORD_STATE	int						18	
	PI_ORD_SUFFIX	int						6	
	PI_ORD_TELECOM_US E_CD	int						24	
	PI_ORD_ZIP	int						19	
	UPDATECONSENT_PA TIENT_CONSENT	int						1	
	UPDATECONSENT_PI_I DENTIFIER	int						2	
	UPDATEFLD_ADDRES S	int						10	
	UPDATEFLD_DOB	int						22	
	UPDATEFLD_DRV_LIC ENSE	int						11	
	UPDATEFLD_EMAIL	int						12	
	UPDATEFLD_ETHNIC_ GROUP	int						19	
	UPDATEFLD_GENDER	int						17	
	UPDATEFLD_MARITAL STATUS	int						20	
	UPDATEFLD_PATIENT CONSENT	int						9	
	UPDATEFLD_PERSON_ IDENTIFIER	int						13	
	UPDATEFLD_PERSON NAME	int						16	
	UPDATEFLD_RACE	int						15	
	UPDATEFLD_RELIGIO N	int						18	
	UPDATEFLD_SSN	int						21	
	UPDATEFLD_TELEPHO NE	int						14	

#### Constraints

Name	Type	Columns	Initial Code	Notes
deletePersonInfo	Public	icssql conn personInfold		
getInstance	Public			
insertPersonInfo	Public	icssql conn dhld updateFields_ updates		
insertPersonInfo	Public	icssql conn dhld person		
insertPersonInfo	Private	icssql conn vars		
insertPersonInfo	Private	icssql conn vars		
personInfoBuildStmt	Private	conn sql vars		
personInfoBuildStmt	Private	conn sql personInfold vars		
personInfoBuildStmt	Private	conn sql personInfold		
personInfoBuildStmt	Private	conn sql identifier consent		
personInfoBuildStmt	Private	conn sql vars		
personInfoBuildStmt	Private	conn sql personInfold vars		
PersonInfoSql	Public			
toUpper	Private	str		
updatePatientConsent	Public	icssql conn person_id_pk identifier consent		

#### PersonSql

Database: Java, Stereotype: , Package: jdbc  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	PersonSql						new PersonSql()	
	log	int						Logger.getLogger("ICS")	
	PERSON_ORD_BIRTH_ PLACE	int						16	
	PERSON_ORD_EXPIRE D	int						5	
	PERSON_ORD_JSPROV IDER	int						6	
	PERSON_ORD_MAIDE N_DEGREE	int						12	
	PERSON_ORD_MAIDE N_ENAME	int						8	
	PERSON_ORD_MAIDE N_LNAME	int						7	
	PERSON_ORD_MAIDE N_NAME_TYPE_CD	int						13	
	PERSON_ORD_MAIDE N_NAME_TYPE_RIP_C D	int						14	
	PERSON_ORD_MAIDE N_PREFIX	int						11	
	PERSON_ORD_MAIDE N_SEARCH_KEY	int						15	
	PERSON_ORD_MAIDE N_SECNAME	int						9	
	PERSON_ORD_MAIDE N_SUFFIX	int						10	
	PERSON_ORD_NAMES EARCHKEY	int						3	
	PERSON_ORD_NATION ALITY_CD	int						2	
	PERSON_ORD_PERSO N_ID	int						1	
	PERSON_ORD_PRIMLA NG	int						4	
	UPDATEFLD_BIRTHPL ACE	int						3	

	UPDATEFLD_EXPIRED	int					0	
	UPDATEFLD_MAIDEN NAME	int					4	
	UPDATEFLD_NATIONALITY	int					1	
	UPDATEFLD_PRIMARYLANGUAGE	int					2	

#### Constraints

Name	Type	Columns	Initial Code	Notes
deletePerson	Public	icssql conn personId		
getInstance	Public			
insertPerson	Public	icssql conn nationCd nameSearchKey primLanguageCd expired isProvider birthPlace maidenName		
personBuildStmt	Private	conn sql nationCd nameSearchKey primLanguageCd expired isProvider birthPlace maidenName		
personBuildStmt	Private	conn sql personId nationCd nameSearchKey primLanguageCd expired isProvider birthPlace maidenName		
personBuildStmt	Private	conn sql personId valueList		
PersonSql	Public			
updatePerson	Public	icssql conn personId updateFields_ updates		
updatePerson	Public	icssql conn personId person		

#### Sql

Database: Java, Stereotype: , Package: jdbc  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
addSqlCondition	Public	colName attrColType value valueList buf		
addSqlCondition	Public	colName attrColType value valueList buf		
buildQuery	Public	icssql params conn		
buildQuery	Public	icssql params conn		
buildSql	Private	icssql params valueList buf		
buildSql	Private	icssql params valueList buf		
buildStatement	Public	icssql params conn		
buildStatement	Public	icssql params conn		
buildWhereClause	Public	colName attrColType value valueList		
buildWhereClause	Public	colName attrColType value valueList		
valToSql	Private	type val bind		
valToSql	Private	type val bind		

#### pids

Type: Package  
Package: ics  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### IdentityServiceBean

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	corrSys	int						null	
	idCache	PersonCache						PersonCache.getInstance()	
	log	int						null	

	QUERY_SESSION_TIM	int						300000	
	FOUT								
	queryMap	int						new HashMap()	
	timeoutMap	int						new HashMap()	

#### Constraints

Name	Type	Columns	Initial Code	Notes
ejbActivate	Public			
ejbCreate	Public			
ejbPassivate	Public			
ejbRemove	Public			
findCandidates	Public	person confidence		
findCandidates	Public	person max		
findCandidates	Public	person		
findCandidates	Public	person confidence max		
getPersonByCorpld	Public	clientId corpld		
getPersonByOid	Public	oid		
getPersonByOid	Public	oid		
getProfile	Public	pid		
getProfileList	Public	identifiers		
getProfileList	Public	identifiers		
queryEnd	Public	ref		
queryNext	Public	ref howMany		
queryStart	Public	person confidence		
setSessionContext	Public	context		

#### Timeout

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	myThread	int						null	
	ref							0	
	timeout	int						0	

#### Constraints

Name	Type	Columns	Initial Code	Notes
reset	Public			
run	Public			
Timeout	Public	ref timeout		

#### IdentityServiceException

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
IdentityServiceException	Public			
IdentityServiceException	Public	message		
IdentityServiceException	Public	throwable		
IdentityServiceException	Public	throwable		

#### PersonCache

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	PersonCache						null	
	oidCache	int						null	
	pidCache	int						null	

#### Constraints

Name	Type	Columns	Initial Code	Notes
clear	Public			
getInstance	Public			
getKey	Private	pid		
getOid	Public	oid		
getPid	Public	pid		
PersonCache	Public			
put	Public	pid val		
put	Public	oid p		
put	Public	pid val		
remove	Public	p persons		
remove	Public	persons		

#### PersonIdServiceBean

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	corhome	int							
	eidDomainProperty	int						null	
	eidDomains	int						new ArrayList()	
	idshome	IdentityServiceHome							
	ctx	int							
	idCache	PersonCache						null	
	log	int						null	

#### Constraints

Name	Type	Columns	Initial Code	Notes
addPerson	Public	person		
addPerson	Private	person eidcheck		

addPersonWithCDECCascade	Public	newperson oldPID		
checkforEIDMismatch	Private	person		
checkForUpdates	Private	oldList newList		
deleteReview	Public	id		
cjbActivate	Public			
cjbCreate	Public			
cjbPassivate	Public			
cjbRemove	Public			
getAllReviews	Public			
getAttributeOldList	Private	person header		
getEIDDomains	Private			
getPersonByPID	Private	person oldPid		
getReviews	Public	domain		
getSystemReviews	Public			
hasReviews	Public	domain		
mergePersons	Public	persons		
mergePersons	Public	persons		
mergePersons	Public	persons		
mergePersons	Public	persons		
mergePersonsWithCDECCascade	Public	newperson oldPID oldEID		
removePerson	Public	person		
savePerson	Private	person trace		
searchByPID	Private	person trace		
setSessionContext	Public	context		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
submitReview	Public	personReview		
updateEID	Private	oldPerson domain facility MRN oldEID newEID		
updatePerson	Public	person		
validateExactMatch	Private	person match checkOnly		

#### PersonIdServiceException

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
PersonIdServiceException	Public			
PersonIdServiceException	Public	message		
PersonIdServiceException	Public	throwable		
PersonIdServiceException	Public	throwable		

#### PersonIdServiceFactory

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
getInstance	Public			
PersonIdServiceFactory	Public			

#### ReviewQueue

Database: Java, Stereotype: , Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	log	int						Logger.getLogger("ICS")	

##### Constraints

Name	Type	Columns	Initial Code	Notes
delete	Public	id		
exists	Public	description p		
get	Public	domainId		
pending	Public	domainId		
submit	Public	personReview		

#### IdentityService

Database: Java, Stereotype: «interface», Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

##### Constraints

Name	Type	Columns	Initial Code	Notes
findCandidates	Package	person		
findCandidates	Package	person confidence		
findCandidates	Package	person max		

findCandidates	Package	person confidence max		
getPersonByCorpId	Package	clientId corpID		
getPersonByOid	Package	oid		
getPersonByOid	Package	oid		
getProfile	Package	pid		
getProfileList	Package	identifiers		
queryEnd	Package	ref		
queryNext	Package	ref howMany		
queryStart	Package	person confidence		

#### IdentityServiceHome

Database: Java, Stereotype: «interface», Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
create	Package			

#### PersonIdService

Database: Java, Stereotype: «interface», Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
addPerson	Public	person		
addPersonWithCDECascade	Public	newperson oldPID		
deleteReview	Public	id		
getAllReviews	Public			
getReviews	Public	domain		
getSystemReviews	Public			
hasReviews	Public	domain		
mergePersons	Public	persons		
mergePersons	Public	persons		
mergePersonsWithCDECascade	Public	newperson oldPID oldEID		
removePerson	Public	person		
splitPerson	Public	person docHeaders		
splitPerson	Public	person docHeaders		
submitReview	Public	personReview		
updatePerson	Public	person		

#### PersonIdServiceHome

Database: Java, Stereotype: «interface», Package: pids  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
create	Package			

#### sdk

Type: Package  
Package: ics  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### io

Type: Package  
Package: sdk  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### CsMergeReader

Database: Java, Stereotype: , Package: io  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ADDRESS_1	int						8	
	ADDRESS_2	int						9	
	ALIAS_FNAME	int						16	
	ALIAS_LNAME	int						15	
	ALIAS_MNAME	int						17	
	APPLICATION	int						1	
	CITY	int						10	
	COMMENT	int						"#"	
	currentLine	int							
	DELIMITER	int						" "	
	DNS	int						"DNS"	
	DOB	int						5	
	EOL	int						19	
	FIRST_NAME	int						3	
	GENDER	int						7	
	ID_AUTHORITY	int						0	
	IDTYPE	int						"INTERNAL IDENTIFIER"	
	LAST_NAME	int						2	
	log	int						Logger.getLogger("ICS")	
	MARITAL_STATUS	int						18	
	NAMESPACE	int						3	
	PATIENT_NUM	int						1	
	PHONE1	int						13	
	PHONE2	int						14	
	reader	int							
	SECOND_NAME	int						4	
	SOCSEC	int						6	
	STATE	int						11	
	TOKEN_COUNT	int						20	
	UNIVERSAL_ID	int						0	
	UUID	int						"UUID"	
	ZIP	int						12	

#### Constraints

Name	Type	Columns	Initial Code	Notes
------	------	---------	--------------	-------

checkComment	Public		
CsMergeReader	Public	fileName	
CsMergeReader	Public	file	
getDate	Private	s	
getDomainValue	Private	s octType	
getEthnicGroup	Private	s	
getFacilityValue	Private	s	
getGender	Private	s	
getMaritalStatus	Private	s	
getNameString	Private	name	
getRace	Private	s	
getStringValue	Private	s	
process	Private	s	
read	Public		
stringToRecord	Private	s	
zerosCheck	Private	s	

#### CsPersonReader

Database: Java, Stereotype: , Package: io  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ADDRESS_1	int						8	
	ADDRESS_2	int						9	
	ALIAS_DEGREE	int						24	
	ALIAS_FNAME	int						20	
	ALIAS_LNAME	int						19	
	ALIAS_MNAME	int						21	
	ALIAS_PREFIX	int						22	
	ALIAS_SUFFIX	int						23	
	APPLICATION	int						1	
	AREA_CODE	int						13	
	CITY	int						10	
	COMMENT	int						"#"	
	currentLine	int							
	DEGREE	int						18	
	DELIMITER	int						" "	
	DL_EXPIRE_DATE	int						33	
	DL_ISSUE_DATE	int						32	
	DL_STATE	int						31	
	DLN	int						30	
	DNS	int						"DNS"	
	DOB	int						5	
	EMAIL	int						29	
	ETHNIC_GROUP	int						27	
	EXTENSION	int						15	
	FIELD_COUNT	int						34	
	FIRST_NAME	int						3	
	GENDER	int						7	
	ID_AUTHORITY	int						0	
	IDTYPE	int						"INTERNAL IDENTIFIER"	
	LAST_NAME	int						2	
	log	int						Logger.getLogger("ICS")	
	MARITAL_STATUS	int						28	
	NAMESPACE	int						3	
	PATIENT_NUM	int						1	
	PREFIX	int						16	
	RACE	int						26	
	reader	int							
	RELIGION	int						25	
	SECOND_NAME	int						4	
	SOCSEC	int						6	
	STATE	int						11	
	SUFFIX	int						17	
	TELEPHONE	int						14	
	UNIVERSAL_ID	int						0	
	UUID	int						"UUID"	
	ZIP	int						12	

#### Constraints

Name	Type	Columns	Initial Code	Notes
checkComment	Public			
CsPersonReader	Public	fileName		
CsPersonReader	Public	file		
getDate	Private	s		
getDomainValue	Private	s octType		
getEthnicGroup	Private	s		
getFacilityValue	Private	s		
getGender	Private	s		
getMaritalStatus	Private	s		
getNameString	Private	name		
getRace	Private	s		
getStringValue	Private	s		
process	Private	s		
read	Public			
stringToRecord	Private	s		
zerosCheck	Private	s		

#### ShmfcPersonReader

Database: Java, Stereotype: , Package: io  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ADDRESS_1	int						3	
	ADDRESS_2	int						4	
	CITY_ST	int						5	
	COMMENT	int						"#"	
	currentLine	int							
	DELIMITER	int						" "	
	DOB	int						10	
	GENDER	int						9	
	MARITAL_STATUS	int						13	
	MEDICAL_ID	int						14	
	NAME	int						1	
	NAMESPACE_ID	int						"com.sansum.medtec"	
	PATIENT_NUM	int						2	
	PREV_NAME	int						11	

	reader	int							
	REC_TYPE	int						0	
	SOCSEC	int						12	
	TELEPHONE_1	int						7	
	TELEPHONE_2	int						8	
	TOKEN_COUNT	int						15	
	ZIP	int						6	

**Constraints**

Name	Type	Columns	Initial Code	Notes
checkComment	Public			
getBirthDate	Private	s		
getCityState	Private	s		
getGender	Private	s		
getMaritalStatus	Private	s		
getNameValues	Private	s		
getPreviousName	Private	s		
process	Private	s		
read	Public			
ShmfcPersonReader	Public	file		
ShmfcPersonReader	Public	fileName		
stringToRecord	Private	s		
zerosCheck	Private	s		

**PersonReader**

Database: Java, Stereotype: «interface», Package: io  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Constraints**

Name	Type	Columns	Initial Code	Notes
checkComment	Public			
read	Public			

**utility**

Type: Package  
Package: io  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Cache**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ageMillis	int						0	
	lru	int						false	
	map	int						new HashMap()	
	maxSize	int						0	
	set	int						new TreeSet()	

**Constraints**

Name	Type	Columns	Initial Code	Notes
ageOut	Private			
clear	Public			
get	Public	key		
put	Public	key value		
remove	Public	key		
resize	Private			
setAgeMillis	Public	ageMillis		
setLRU	Public	flag		
setSize	Public	size		

**Key**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	key	int							
	tstamp	int							

**Constraints**

Name	Type	Columns	Initial Code	Notes
compareTo	Public	obj		
equals	Public	obj		
hashCode	Public			
Key	Public	key		
toString	Public			

**ICSProperties**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	int						new ICSProperties()	
	lastModified	int						0	
	propFile	int						null	
	props	int							

**Constraints**

Name	Type	Columns	Initial Code	Notes
getBoolean	Public	key defVal		
getDouble	Public	key defVal		
getInt	Public	key defVal		
getProperty	Public	key		
getProperty	Public	key defVal		
ICSProperties	Public			
load	Public			

**IcsEvent**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	_altPerson	int							
	_currPerson	int							
	_eventDate	int							
	_eventReason	int							
	_eventType	int							
	_isPersisted	int						false	
	_userID	int							
	EVENT_ALT_PERSON_..DOB	int						9	
	EVENT_ALT_PERSON_ID	int						7	
	EVENT_ALT_PERSON_..SSN	int						8	
	EVENT_CONSENT_UPDATED	int							"PATIENT CONSENT UPDATED"
	EVENT_CURR_PERSON_DOB	int						6	
	EVENT_CURR_PERSON_ID	int						4	
	EVENT_CURR_PERSON_SSN	int						5	
	EVENT_DATE	int						3	
	EVENT_ID	int						1	
	EVENT_ONADD_DUPLICATE_FOUND	int							"DUPLICATE FOUND ON ADD"
	EVENT_ONADD_EXPIRED_FOUND	int							"EXPIRED PERSON FOUND ON ADD"
	EVENT_ONADD_SIMILAR_FOUND	int							"SIMILAR MATCH FOUND ON ADD"
	EVENT_PERSON_ADDED	int							"PERSON ADDED"
	EVENT_PERSON_REMOVED	int							"PERSON REMOVED"
	EVENT_PERSON_SPLIT	int							"PERSON SPLIT"
	EVENT_PERSON_UPDATED	int							"PERSON UPDATED"
	EVENT_PERSONS_MERGED	int							"PERSONS MERGED"
	EVENT_REASON	int						10	
	EVENT_TYPE	int						2	
	EVENT_USER	int						11	
	icssql	int							IcsSqlXML.getInstance()
	log	int							Logger.getLogger("ICS")

#### Constraints

Name	Type	Columns	Initial Code	Notes
eventLogBuildStmt	Private	conn sql eventLogId		
eventLogBuildStmt	Private	conn sql		
IcsEvent	Public	eventType eventDate currPerson altPerson		
IcsEvent	Public	eventType eventDate currPerson altPerson eventReason userID		
isPersisted	Public			
persist	Public			
toString	Public			

#### IcsEventLogger

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	int							
	log	int							Logger.getLogger("ICS")

#### Constraints

Name	Type	Columns	Initial Code	Notes
duplicateFoundDuringAdd	Public	duplicate person		
expiredPersonFoundDuringAdd	Public	person		
getInstance	Public			
IcsEventLogger	Public			
patientConsentUpdated	Public	person		
persistEvent	Private	eventType eventDate currPerson altPerson		
personAdded	Public	person		
personRemoved	Public	person		
personsMerged	Public	basePerson mergePerson		
personSplit	Public	originalPerson newPerson		
personUpdated	Public	person		
similarFoundDuringAdd	Public	similar person		

#### IcsEventLoggerRunner

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	event	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
IcsEventLoggerRunner	Public	event		
run	Public			

#### IcsException

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Constraints

Name	Type	Columns	Initial Code	Notes
IcsException	Public			
IcsException	Public	message		
IcsException	Public	throwable		

#### Relationships



Columns	Association	Notes
	CorrelationSystemException. IcsException.	
	DatabaseException. IcsException.	

### IcsSqlXML

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ATTR_COLTYPE_DATE	int						"Date"	
	ATTR_COLTYPE_LIKE_STRING	int						"LikeString"	
	ATTR_COLTYPE_LIKE_USTRING	int						"LikeUString"	
	ATTR_COLTYPE_NUMBER	int						"Number"	
	ATTR_COLTYPE_STRING	int						"String"	
	ATTR_COLTYPE_USTRING	int						"UString"	
	ATTR_TAG	int						"ATTR-"	
	ICS_SQL_FILE	int						ICSProperties.getProperty("ICS_SQL_FILE", "IcsSql.xml")	
	instance	int						new IcsSqlXML()	
	log	int						Logger.getLogger("ICS")	
	props	int							
	rootNode	int							

#### Constraints

Name	Type	Columns	Initial Code	Notes
buildProps	Public	e		
getElement	Public	eName		
getInstance	Public			
getPath	Public			
getProperties	Public			
getProperty	Public	propName		
IcsSqlXML	Public			
searchNode	Public	e eName		

### IcsTrace

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ADD_PERSON	int						2	
	enabled	int						false	
	log	int						new StringBuffer()	
	MERGE_PERSON	int						3	
	SPLIT_PERSON	int						4	
	type	int							
	UPDATE_PERSON	int						1	

#### Constraints

Name	Type	Columns	Initial Code	Notes
add	Public	msg		
add	Public	p		
add	Public	p brief		
disable	Public			
enable	Public			
IcsTrace	Public	type p		
isEnabled	Public			
logPerson	Private	p brief		
save	Public			

### JdbcHelper

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	ds	int						null	
	JNDI_DATASOURCE	int						ICSProperties.getProperty("JNDI_DATASOURCE", "icsPool")	

#### Constraints

Name	Type	Columns	Initial Code	Notes
getConnection	Public			
initializeJdbc	Private			
JdbcHelper	Public			

### JndiHelper

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	IIOP_URL	int						ICSProperties.getProperty("IIOP_URL")	
	JNDI_FACTORY	int						"weblogic.jndi.WLInitialContextFactory"	

#### Constraints

Name	Type	Columns	Initial Code	Notes
bindObject	Public	jndiName objectToBind		
getContext	Private			
getObject	Public	lookupName classToCreate		
JndiHelper	Public			

### Profile

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	instance	int						new Profile()	
	profile	int						Boolean.getBoolean("Profile.enable")	
	threads	int						new HashMap()	
	timers	int						new Vector()	

#### Constraints

Name	Type	Columns	Initial Code	Notes
------	------	---------	--------------	-------

begin	Public	name		
clearAll	Public			
disable	Public			
dump	Public			
dump	Public	out		
dump	Public	out		
dump	Public	out		
dumpTimers	Private	timers out prefix totals		
enable	Public			
end	Public	name		
isEnabled	Public			
Profile	Public			

**Timer**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	child	int							
	cnt	int							
	name	int							
	start	int							
	timers	int							
	total	int							

**Constraints**

Name	Type	Columns	Initial Code	Notes
end	Public	name		
Timer	Public			
Timer	Public	t		
total	Public			

**Utils**

Database: Java, Stereotype: , Package: utility  
Detail: Created on 6/4/2008. Last modified on 6/4/2008.  
Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
	BIRTH_DATE	int						new SimpleDateFormat("yyyy MMdd")	
	MESSAGE_DATE	int						new SimpleDateFormat("yyyy MMddhhmmss")	

**Constraints**

Name	Type	Columns	Initial Code	Notes
configDir	Public	file		
filterForUnique	Public	people		
getFirstHeader	Public	headers		
getlastHeader	Public	headers		
getNamespacedFor	Public	hostname		
toReversedList	Private	hostname		
Utils	Public			
writeToFile	Public	ostream filename		