ODM v2 RC2 - ERD for SQL database

parts

Key	Field	Type
PK	partID	varchar
	partLabel	varchar
	partType	varchar
	shortName	varchar
	partDesc	varchar
	partInstr	varchar
	domainID	varchar
FK	specimenSet	varchar
FK	compSet	varchar
	groupID	varchar
	classID	varchar
	nomenclatureID	varchar
	ontologyRef	varchar
	latExp	varchar
	catSetID	varchar
FK	unitSetID	varchar
	aggScaleID	varchar
FK	aggSetID	varchar
FK	qualitySetID	varchar
	status	varchar
	firstReleased	varchar
	lastUpdated	varchar
	changes	varchar
	protocolSteps	varchar
	protocolStepsRequired	varchar
	protocolStepsOrder	int
	protocolOrg	varchar
	protocolOrgRequired	varchar
	protocolOrgOrder	int
	measures	varchar
	measuresRequired	varchar
	measuresOrder	int
	measureSets	varchar
	measureSetsRequired	varchar
	measureSetsOrder	int
	datasets	varchar
	datasetsRequired	varchar
	datasetsOrder	int
	sites	varchar
	sitesRequired	varchar
	sitesOrder	int
	samples	varchar
	samplesRequired	varchar
	samplesOrder	int
	addresses	varchar
	addressesRequired	varchar
	addressesOrder	int
	contacts	varchar
	contactsRequired	varchar
	contactsOrder	int
	organizations	varchar
	organizationsRequired	varchar
	organizationsOrder	int
	instruments	varchar
	instrumentsRequired	varchar
	instrumentsOrder	int
	polygons	varchar
	polygonsRequired	varchar
	polygonsOrder	int
	languages	varchar
	languagesOrder	int
	translations	varchar
	translationsOrder	int
	parts	varchar
	sets	varchar
	setsOrder	int
	qualityReports	varchar
	qualityReportsRequired	varchar
	qualityReportsOrder	int
	sampleRelationships	varchar
	sampleRelationshipsRequired	varchar
	sampleRelationshipsOrder	int
	protocols	varchar
	protocolsRequired	varchar
	protocolsOrder	int
	refLink	varchar
	dataType	varchar
	minValue	int
	maxValue	int
	minLength	int
	maxLength	int

sets

Key	Field	Type
PK	setID	varchar
	setType	varchar
FK	partID	varchar
	status	varchar
	firstReleased	varchar
	lastUpdated	varchar
	changes	varchar
	notes	varchar

translations

Key	Field	Type
FK	partID	varchar
FK	langID	int
	partLab	varchar
	partDesc	varchar
	partInstr	varchar
	firstReleased	varchar
	lastUpdated	varchar
	changes	varchar
	notes	varchar

languages

Key	Field	Type
PK	langID	int
	langFam	varchar
	langName	varchar
	natName	varchar
	ISO6391	varchar
	ISO6392T	varchar
	ISO6392B	varchar
	ISO6393	varchar
	ISO6396	varchar
	firstRelased	varchar
	lastUpdated	varchar
	changes	varchar
	notes	varchar

sampleRelationships

Key	Field	Type
FK	sampleIDSub	varchar
FK	relationshipID	varchar
FK	sampleIDObj	varchar
	lastEdited	datetime
	notes	varchar

samples

Key	Field	Type
PK	sampleID	varchar
FK	protocolID	varchar
	orgID	varchar
FK	contID	varchar
FK	siteID	varchar
FK	purposeID	varchar
FK	saMaterial	varchar
FK	datasetID	varchar
	origin	varchar
FK	repType	varchar
FK	collType	varchar
	collPer	float
	collNum	int
	pooled	bool
	collDT	datetime
	collDTStart	datetime
	collDTEnd	datetime
	sentDate	datetime
	recDate	datetime
	reportable	varchar
	lastEdited	datetime
	notes	varchar

measures

Key	Field	Type
PK	measureRepID	varchar
FK	protocolID	varchar
FK	sampleID	varchar
FK	purposeID	varchar
FK	polygonID	varchar
FK	siteID	varchar
FK	datasetID	varchar
FK	measureSetRepID	varchar
	aDateStart	datetime
	aDateEnd	datetime
	reportDate	datetime
FK	specimenID	varchar
FK	fractionID	varchar
FK	groupID	varchar
FK	classID	varchar
FK	measureID	varchar
	value	varchar
FK	unitID	varchar
FK	aggID	varchar
	index	int
	orgID	varchar
	contID	varchar
	reportable	varchar
	lastEdited	datetime
	notes	varchar

measureSets

Key	Field	Type
PK	measureSetRepID	varchar
FK	protocolID	varchar
	name	varchar
FK	orgID	varchar
FK	contID	varchar
	notes	varchar
	lastEdited	varchar

qualityReports

Key	Field	Type
PK	qualityID	varchar
FK	measureRepID	varchar
FK	sampleID	varchar
FK	measureSetRepID	varchar
	qualityFlag	varchar
	severity	int
	lastEdited	datetime
	notes	varchar

datasets

Key	Field	Type
FK	parDatasetID	varchar
PK	datasetID	varchar
	name	varchar
FK	license	varchar
	descr	varchar
	refLink	varchar
FK	langID	varchar
FK	funderCont	varchar
FK	custodyCont	varchar
FK	funderID	varchar
FK	custodyID	varchar
	lastEdited	varchar
	notes	varchar

organizations

Key	Field	Type
PK	orgID	varchar
FK	datasetID	varchar
FK	addID	varchar
FK	orgTypeID	varchar
	name	varchar
	descr	varchar
	lastEdited	varchar

addresses

Key	Field	Type
PK	addID	varchar
FK	datasetID	varchar
	addL1	varchar
	addL2	varchar
	city	varchar
	stateProvReg	varchar
	pCode	varchar
FK	country	varchar
	lastEdited	varchar
	notes	varchar

contacts

Key	Field	Type
PK	contID	varchar
FK	datasetID	varchar
FK	orgID	varchar
	firstName	varchar
	lastName	varchar
	email	varchar
	phone	varchar
	role	varchar
	lastEdited	varchar
	notes	varchar

protocols

Key	Field	Type
FK	sourceProtocol	varchar
PK	protocolID	varchar
FK	datasetID	varchar
	name	varchar
	summary	varchar
	reflink	varchar
FK	orgID	varchar
FK	contID	varchar
	protocolVersion	varchar
	lastEdited	datetime
	notes	varchar

protocolRelationships

Key	Field	Type
FK	protocolIDContainer	varchar
FK	protocolIDObj	varchar
FK	stepIDObj	varchar
FK	relationshipID	varchar
FK	protocolIDSub	varchar
FK	stepIDSub	varchar
	lastEdited	datetime
	notes	varchar

protocolSteps

Key	Field	Type
PK	stepID	varchar
FK	methodID	varchar
FK	measureID	varchar
	summ	varchar
FK	sourceStep	varchar
	stepVer	varchar
	refLink	varchar
FK	orgID	varchar
FK	contID	varchar
FK	instID	varchar
	value	varchar
FK	unitID	varchar
FK	aggID	varchar
	lastEdited	datetime
	notes	varchar

polygons

Key	Field	Type
PK	polygonID	varchar
FK	datasetID	varchar
	name	varchar
	descr	varchar
	polyPop	int
	geoType	varchar
	geoEPSG	varchar
	geoWKT	varchar
	refLink	varchar
FK	orgID	varchar
FK	contID	varchar
	lastEdited	varchar
	notes	varchar

sites

Key	Field	Type
FK	parSiteID	varchar
FK	siteID	varchar
FK	datasetID	varchar
FK	polygonID	varchar
FK	siteTypeID	varchar
	samShed	varchar
FK	addID	varchar
FK	orgID	varchar
FK	contID	varchar
	name	varchar
	descr	varchar
	pHDept	varchar
	healthReg	varchar
	popServ	int
	geoLat	varchar
	geoLong	varchar
	geoEPSG	varchar
	lastEdited	date
	notes	varchar

instruments

Key	Field	Type
PK	instID	varchar
FK	datasetID	varchar
	name	varchar
	model	varchar
	manufacturer	varchar
FK	contID	varchar
FK	orgID	varchar
	descr	varchar
	refLink	varchar
FK	instType	varchar
	insTypeOth	varchar
	index	int
	lastEdited	datetime
	notes	varchar

Legend

- **Yellow**: Program description tables are where testing laboratories and surveillance programs record administrative information about the testing laboratory and testing site.

- **Green**: Dictionary look-up tables are reference tables to support reporting measures and samples. The tables are used when new measures are created or added to the ODM to describe how to report a new type of sample or measure.

- **Blue**: Results tables are where testing laboratories store information about samples and the results of tests performed on the samples.

  NOTE: All the unconnected foreign keys from the **blue** or **yellow** tables are linked to the **parts** table, **partID** field