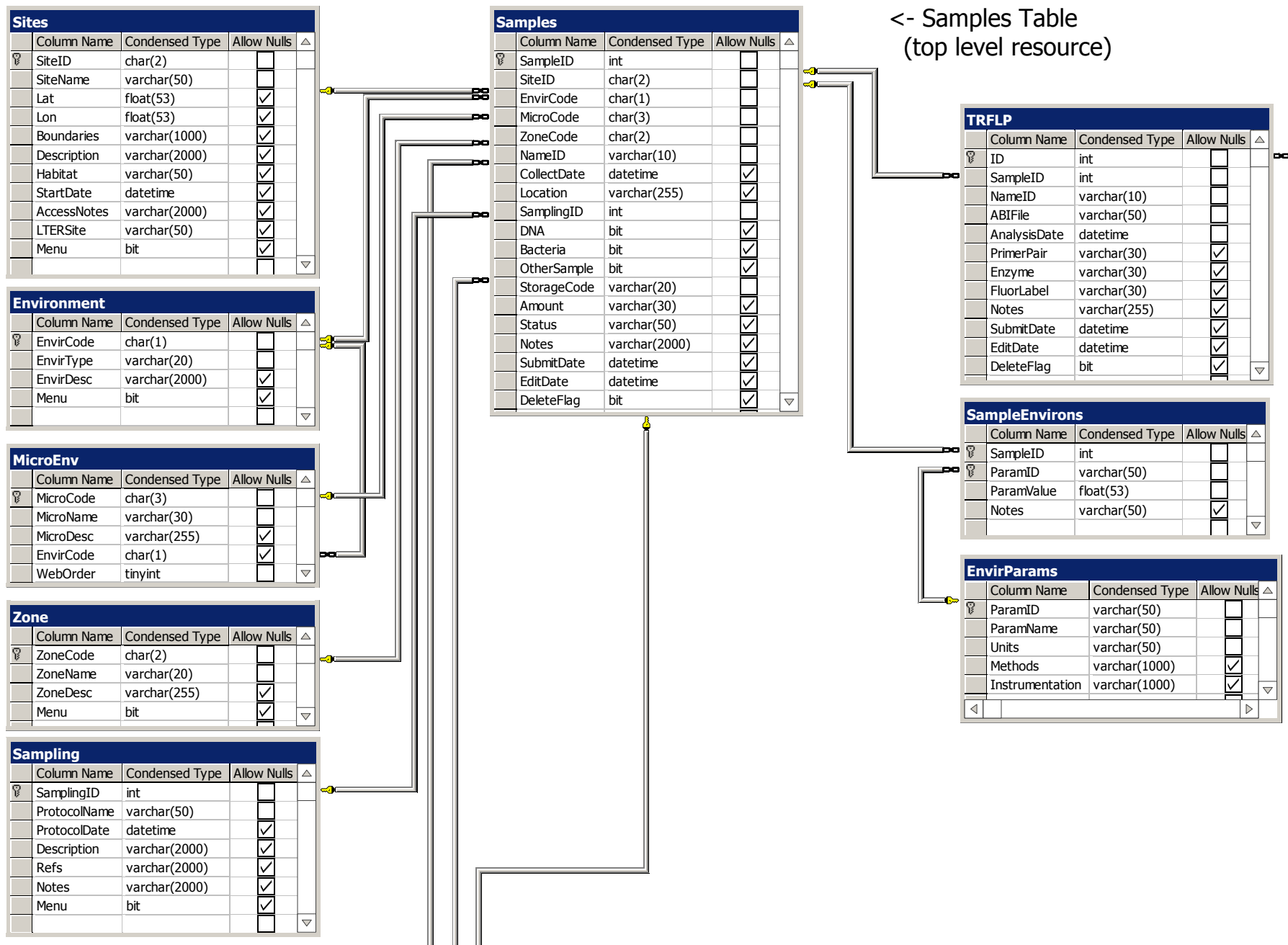


SIMO Project 16S rRNA Sequence Database ERD (27-Oct-2005)

Implemented using Microsoft® SQL Server 2000 by Wade Sheldon,
SIMO Database Administrator (sheldon@uga.edu)



<- Samples Table
(top level resource)

<- DNA Source Table
(linked to Samples)

Storage				
Column Name	Condensed Type	Allow Nulls		
StorageCode	varchar(20)	<input type="checkbox"/>	<input type="checkbox"/>	
StorageName	varchar(30)	<input type="checkbox"/>	<input type="checkbox"/>	
Type	varchar(30)	<input type="checkbox"/>	<input type="checkbox"/>	
Description	varchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Institution	varchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Building	varchar(30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Room	varchar(20)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Label	varchar(30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ContactName	nvarchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ContactPhone	varchar(30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Menu	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SourceType				
Column Name	Condensed Type	Allow Nulls		
TypeCode	char(2)	<input type="checkbox"/>	<input type="checkbox"/>	
TypeName	varchar(50)	<input type="checkbox"/>	<input type="checkbox"/>	
Menu	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SourceTechnique				
Column Name	Condensed Type	Allow Nulls		
TechCode	int	<input type="checkbox"/>	<input type="checkbox"/>	
TechName	varchar(50)	<input type="checkbox"/>	<input type="checkbox"/>	
Description	varchar(255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Refs	varchar(255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Menu	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Source				
Column Name	Condensed Type	Allow Nulls		
SourceID	int	<input type="checkbox"/>	<input type="checkbox"/>	
TypeCode	char(2)	<input type="checkbox"/>	<input type="checkbox"/>	
TechCode	int	<input type="checkbox"/>	<input type="checkbox"/>	
SampleID	int	<input type="checkbox"/>	<input type="checkbox"/>	
NameID	varchar(10)	<input type="checkbox"/>	<input type="checkbox"/>	
SourceDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	
StorageCode	varchar(20)	<input type="checkbox"/>	<input type="checkbox"/>	
Alias	varchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notes	varchar(2000)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Status	varchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SubmitDate	datetime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
EditDate	datetime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DeleteFlag	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<- 16S rRNA Sequence Table
(linked to Source)

SeqAnalysis				
Column Name	Condensed Type	Allow Nulls		
AnalysisCode	varchar(10)	<input type="checkbox"/>	<input type="checkbox"/>	
AnalysisName	varchar(50)	<input type="checkbox"/>	<input type="checkbox"/>	
Instrument	varchar(50)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Configuration	varchar(256)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Reference	varchar(2000)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Menu	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Primers				
Column Name	Condensed Type	Allow Nulls		
Primer	varchar(20)	<input type="checkbox"/>	<input type="checkbox"/>	
Description	varchar(80)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Vendor	varchar(255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Refs	varchar(255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Menu	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Sequence				
Column Name	Condensed Type	Allow Nulls		
SequenceID	int	<input type="checkbox"/>	<input type="checkbox"/>	
SourceID	int	<input type="checkbox"/>	<input type="checkbox"/>	
AnalysisDate	datetime	<input type="checkbox"/>	<input type="checkbox"/>	
AnalysisCode	varchar(10)	<input type="checkbox"/>	<input type="checkbox"/>	
Primer	varchar(20)	<input type="checkbox"/>	<input type="checkbox"/>	
NameID	varchar(10)	<input type="checkbox"/>	<input type="checkbox"/>	
FullSequence	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RawSequence	varchar(2000)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CutSequence	varchar(2000)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notes	varchar(255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
GenBankNum	varchar(30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ABIFile	varchar(100)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SubmitDate	datetime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
EditDate	datetime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DeleteFlag	bit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SeqSubmission				
Column Name	Condensed Type	Allow Nulls		
SequenceID	int	<input type="checkbox"/>	<input type="checkbox"/>	
SubmitDate	smalldatetime	<input type="checkbox"/>	<input type="checkbox"/>	

Taxonomic/Phylogenetic Tables (related to Sequences)

Programs				
	Column Name	Condensed Type	Allow Nulls	△
PK	ProgramCode	varchar(20)	<input type="checkbox"/>	
	ProgramName	varchar(100)	<input type="checkbox"/>	
	ProgramDesc	varchar(500)	<input checked="" type="checkbox"/>	
	ProgramVersion	varchar(20)	<input checked="" type="checkbox"/>	
	ProgramURL	varchar(200)	<input checked="" type="checkbox"/>	
	InstructionsURL	varchar(2000)	<input checked="" type="checkbox"/>	
	Menu	bit	<input checked="" type="checkbox"/>	

BactGroups				
	Column Name	Condensed Type	Allow Nulls	△
PK	BactGroupID	smallint	<input type="checkbox"/>	
	BactGroup	varchar(100)	<input type="checkbox"/>	
	DisplayName	varchar(100)	<input type="checkbox"/>	
	SortName	varchar(50)	<input type="checkbox"/>	

People				
	Column Name	Condensed Type	Allow Nulls	△
PK	NameID	varchar(10)	<input type="checkbox"/>	
	FirstName	nvarchar(20)	<input type="checkbox"/>	
	MiddleName	nvarchar(20)	<input checked="" type="checkbox"/>	
	LastName	nvarchar(30)	<input type="checkbox"/>	
	Prefix	varchar(20)	<input checked="" type="checkbox"/>	
	Suffix	varchar(20)	<input checked="" type="checkbox"/>	
	Phone1	varchar(50)	<input checked="" type="checkbox"/>	
	Phone2	varchar(50)	<input checked="" type="checkbox"/>	
	Email	varchar(50)	<input checked="" type="checkbox"/>	
	StartDate	datetime	<input checked="" type="checkbox"/>	
	EndDate	datetime	<input checked="" type="checkbox"/>	
	Menu	bit	<input checked="" type="checkbox"/>	

PhyloAnalysis				
	Column Name	Condensed Type	Allow Nulls	△
PK	ComparisonID	int	<input type="checkbox"/>	
	SequenceID	int	<input type="checkbox"/>	
	ComparisonDate	datetime	<input checked="" type="checkbox"/>	
	ProgramCode	varchar(20)	<input type="checkbox"/>	
	RDP_ID	varchar(20)	<input checked="" type="checkbox"/>	
	RDP_Sequence	varchar(2000)	<input checked="" type="checkbox"/>	
	RDP_OligosUsed	smallint	<input checked="" type="checkbox"/>	
	RDP_Sab	real	<input type="checkbox"/>	
	Sim_Identity	real	<input type="checkbox"/>	
	Sim_Ungapped	real	<input type="checkbox"/>	
	Sim_Overlap	smallint	<input type="checkbox"/>	
	Sim_SWScore	smallint	<input checked="" type="checkbox"/>	
	RDP_Name	varchar(50)	<input checked="" type="checkbox"/>	
	RDP_Alias	varchar(50)	<input checked="" type="checkbox"/>	
	RDP_Accession	varchar(100)	<input checked="" type="checkbox"/>	
	RDP_Tree	varchar(3000)	<input type="checkbox"/>	
	BactGroupID	smallint	<input type="checkbox"/>	
	Taxon	varchar(500)	<input type="checkbox"/>	
	FinestTaxonRankI	varchar(200)	<input checked="" type="checkbox"/>	
	FinestTaxonRank'	varchar(50)	<input checked="" type="checkbox"/>	
	Domain	varchar(50)	<input checked="" type="checkbox"/>	
	Phylum	varchar(50)	<input checked="" type="checkbox"/>	
	Class	varchar(50)	<input checked="" type="checkbox"/>	
	Subclass	varchar(50)	<input checked="" type="checkbox"/>	
	[Order]	varchar(50)	<input checked="" type="checkbox"/>	
	Suborder	varchar(50)	<input checked="" type="checkbox"/>	
	Family	varchar(50)	<input checked="" type="checkbox"/>	
	Genus	varchar(50)	<input checked="" type="checkbox"/>	
	Species	varchar(100)	<input checked="" type="checkbox"/>	

PhyloClosest				
	Column Name	Condensed Type	Allow Nulls	△
PK	ComparisonID	int	<input type="checkbox"/>	
	SequenceID	int	<input type="checkbox"/>	
	ComparisonDate	datetime	<input checked="" type="checkbox"/>	
	ProgramCode	varchar(20)	<input type="checkbox"/>	
	NumClosest	smallint	<input type="checkbox"/>	
	RDP_Tree	varchar(4000)	<input type="checkbox"/>	