

ArcSDE & Geodatabase System Tables

SDB_SURVEYDATASETS

ID (UK1)
Major
Minor
Bugfix
Name (UK2)
DBName (UK2)
Owner (UK2)
MinX
MaxX
MinY
MaxY
MinZ
MaxZ
SpatialRef
DataValue

SDB_SCONN

SDID
OrigID (UK)
DestID (UK)
RoleDomain

SDB_FCONN

SDID
FCID (UK)

SDB_FIELDSPECS

ID (UK1)
SchemaID (UK2)
FieldName (UK2)
RID
UOMCatID

SDB_SCALARREFS

RID (UK)
SRText

SDB_RELEASEINFO

Major
Minor
Bugfix

SDB_SURVEYCLASSES

ID (UK1)
SDID (UK2)
Name (UK2)
DBName
Owner
SOType
ObjCLSID
ExtCLSID
ModelID
DataValue

*Survey tables are created when SDBSetup.exe is executed

GDB_TOPORULES

RuleID
OriginClassID
OriginSubtype
AllOriginSubtypes
DestClassID
DestSubtype
AllDestSubtypes
TopologyRuleType
Name
RuleGUID (UK)

GDB_TOPOCLASSES

ClassID
TopologyID
Weight
XYRank
ZRank
EventsOnAnalyze

GDB_TOPOLOGIES

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
DatasetID
Properties

GDB_RELEASE

Major (UK)
Minor (UK)
Bugfix (UK)

GDB_EXTENSIONS

ID
Name (UK1)
CLSID (UK2)

METADATA

record_id
object_database
object_name
object_owner
object_type
class_name
property
prop_value
description
creation_date

TABLES_MODIFIED

table_name
time_last_modified

OBJECT_IDS

id_type
base_id
object_type

GDB_TABLES_LAST_MODIFIED

table_name (UK)
last_modified_count

PROCESS_INFORMATION

sde_id
spid (UK)
server_id
start_time
rcount
wcount
opcount
numlocks
fb_partial
fb_count
fb_fcount
fb_kbytes
owner
direct_connect
sysname
nodename
xdr_needed

General

VERSION

MAJOR
MINOR
BUGFIX
DESCRIPTION
RELEASE
SDSVR_REL_LOW

GDB_USERMETADATA

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
DatasetType
Xml

SERVER_CONFIG

prop_name
char_prop_value
num_prop_value

GDB_TOOLBOXES

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
Alias
Metadata
HelpFile
HelpContext

DBTUNE

keyword
parameter_name
config_string

COMPRESS_LOG

compress_id
sde_id
server_id
direct_connect
compress_start
start_state_count
compress_end
end_state_count
compress_status

Zero or more

Zero or one

Exactly one

Non-identifying relationship

Identifying relationship

ID

Name

Table_name (UK)

SRID (FK)

Primary key

Required (NOT NULL)

Unique key

Foreign key

GDB_FIELDINFO

ClassID
FieldName
AliasName
ModelName
DefaultDomainName
DefaultValueString
DefaultValueNumber
IsRequired
IsSubtypeFixed
IsEditable

GDB_FEATUREDATASET

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
SRID

GDB_RELCLASSES

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
OriginClassID
DestClassID
ForwardLabel
BackwardLabel
Cardinality
Notification
IsComposite
IsAttributed
OriginPrimaryKey
DestPrimaryKey
OriginForeignKey
DestForeignKey
DatasetID

Datasets

RASTER_COLUMNS

rastercolumn_id (UK)
description
database_name
owner
table_name
raster_column
cdate
config_keyword
minimum_id
base_rastercolumn_id
rastercolumn_mask
srid(FK)

SPATIAL_REFERENCES

srid
description
auth_name
auth_srid
falsex
falsey
xyunits
falsez
zunits
falsem
munits
object_flags
srtxt

GDB_ANNOSYMBOLS

ID
Symbol

GDB_SUBTYPES

ID
ClassID
SubtypeCode
SubtypeName

LAYERS

layer_id (UK)
description
database_name
table_name
owner
spatial_column
eflags
layer_mask
gsize1
gsize2
gsize3
minx
maxx
minz
maxz
minm
maxm
cdate
layer_config
optimal_array_size
stats_date
minimum_id
srid(FK)
base_layer_id

GEOMETRY_COLUMNS

f table_catalog
f table_schema
f table_name
f geometry_column
g_table_catalog
g_table_schema
g table_name
storage_type
geometry_type
coord_dimension
max_ppr
srid(FK)

GDB_OBJECTCLASSES

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
AliasName
ModelName
CLSID
EXTCLSID
EXTPROPS
SubtypeField
DatasetID

COLUMN_REGISTRY

database_name(FK)
table_name(FK)
owner(FK)
column_name
sde_type
column_size
decimal_digits
description
object_flags
object_id

GEOMETRY_COLUMNS

f table_catalog
f table_schema
f table_name
f geometry_column
g_table_catalog
g_table_schema
g table_name
storage_type
geometry_type
coord_dimension
max_ppr
srid(FK)

TABLE_REGISTRY

registration_id
database_name (UC)
table_name (UC)
owner (UC)
rowid_column
description
object_flags
registration_date
config_keyword
minimum_id
inv_view_name

GDB_RASTERCATALOGS

ObjectClassID
RasterField
IsRasterDataset

GDB_DEFAULTVALUES

ClassID
FieldName
Subtype
DefaultString
DefaultNumber

GDB_FEATURECLASSES

ObjectClassID (UK)
FeatureType
GeometryType
ShapeField
GeomNetworkID
GraphID

GDB_CODEDDOMAINS

DomainID
CodedValues

GDB_STRINGDOMAINS

DomainID
Format

GDB_RANGEDOMAINS

DomainID
MinValue
MaxValue

Domains

GDB_DOMAINS

ID
Owner
DomainName (UK)
Description
DomainType
FieldType
MergePolicy
SplitPolicy

GDB_REPLICAS

ID
Name
Owner
Version
ParentID
RepDate
DefQuery
RepGuid
RepCInfo
Role

Distributed Geodatabases

GDB_REPLICADATASETS

ID
ReplicaID
DatasetType
DatasetID
ParentOwner
ParentDB

MVTABLES_MODIFIED

registration_id
state_id(FK)

STATES

state_id
owner
creation_time
closing_time
parent_state_id (UK)
lineage_name (UK)

LINEAGES_MODIFIED

lineage_name
time_last_modified

VERSIONS

name (UK)
owner (UK)
version_id
status
state_id
description
parent_name
parent_owner
parent_version_id
creation_time

STATE_LINEAGES

lineage_name
lineage_id

GDB_VALIDRULES

ID
RuleType
ClassID
RuleCategory
HelpString

GDB_SPATIALRULES

RuleID
Subtype
SpatialRel
Distance
RefClassID
RefSubtype

GDB_RELRULES

RuleID
OriginSubtype
OriginMinCard
OriginMaxCard
DestSubtype
DestMinCard
DestMaxCard

GDB_EDGECONNRULES

RuleID
FromClassID
FromSubtype
ToClassID
ToSubtype
Junctions

Rules

GDB_ATTRRULES

RuleID
Subtype
FieldName
DomainName

GDB_JNCONNRULES

RuleID
EdgeClassID
EdgeSubtype
EdgeMinCard
EdgeMaxCard
JunctionClassID
JunctionSubtype
JunctionMinCard
JunctionMaxCard
IsDefault

LOCATORS

locator_id
name (UC)
owner (UC)
category
type
description

GCDRULES

ID (UK)
STYLE
TYPE
DATA

Geocoding

XML_COLUMNS

registration_id (UK)(FK)
column_id
column_name (UK)
index_id (FK)
minimum_id
config_keyword

XML_INDEXES

index_id
index_name (UK)
owner (UK)
index_type
description

XML_INDEX_TAGS

index_id (FK)
tag_id (FK)
is_excluded

XML_TAGS

tag_id
tag_name (UK)
data_type
tag_alias
description

XML

GDB_NETWORKS

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
NetworkType
IndexType
Normalized

GDB_GEOMNETWORKS

ID
DatabaseName (UC)
Owner (UC)
Name (UC)
NetworkType
DatasetID

GDB_NETCLASSES

ClassID
NetworkID
EnabledField
AncillaryRole
AncillaryField

GDB_NETWEIGHTS

OID
NetworkID (UK)
Name
WeightID (UK)
WeightType
BitGateSize

GDB_NETWEIGHTASOCS

NetworkID (UK)
WeightID (UK)
TableName (UK)
FieldName

Geometric Networks

TABLE_LOCKS

sde_id
registration_id
lock_type

LAYER_LOCKS

sde_id
layer_id
autolock
lock_type
minx
miny
maxx
maxy

OBJECT_LOCKS

sde_id
object_id
object_type
application_id
autolock
lock_type

STATE_LOCKS

sde_id
state_id
autolock
lock_type