

Oracle Designer

Report : TABLE DEFINITION
Filename : c:\public\tab
Run by : KAH
Report Date : 21 April 2004
Total Pages : 65

Parameter Values

Workarea : AREA8
Container : ISO Metadata
Container Version :
Recurse Sub-Containers : N
Tab/View/Snap Name : %
Diagram :

Includes
 Tables : Yes
 Views : Yes
 Snapshots : Yes
 Column Details : Yes

Tables Created
 On/After :
and On/Before : 21 April 2004

Tables Changed
 On/After :
 On/Before : 21 April 2004

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ADD_DATEPRCN Alias :
Display Title :Description : Dictionary of date precisions applicable to a date field (e.g. second,
day, year)Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	NAME	NOT NULL	VARCHAR2 (20)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ADD_DATEPRCN_PK	NAME

Column Detail

5	NAME	Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
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Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ADD_EPSG Alias :
Display Title :Description : EPSG Reference Systems. This could need splitting into vertical,
horizontal + vertical. Also some coordinate systems specify the units
of measure, so these may be redundant in the main ISO 19115:2003
implementation

Notes : Changed Code to Number(9) KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	CODE	NOT NULL	NUMBER (9, 0)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ADD_EPSG_PK	CODE

Column Detail

10 CODE
 EPSG Code
 Optional ? :No ; Number (9, 0) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ADD_LANGUAGE Alias :
Display Title :

Description : ISO 639-2

Notes : In ISO 639/2 two code sets are provided, one for bibliographic applications (ISO 639-2/B), and one for terminology applications (ISO 639-2/T). Criteria for selecting the form of a language code for code set B were:

preference of the countries using the language
 established usage of codes in national and international bibliographic databases, and
 the vernacular or English form of the language.

Code set T was based on:
 the vernacular form of the language, or
 preference of the countries using the language

I (KAH) have arbitrarily decided to use ISO 639-2/T only.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	CODE	NOT NULL	CHAR (3)
20	TERM	NOT NULL	VARCHAR2 (60)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ADD_LANGUAGE_PK	CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ADD_LANGUAGE_UK1	TERM

Column Detail

10	CODE	Optional ? :No ; Char (3) ; () ; ; Uppercase ? :No ; ISO 639-2/T 3 letter code
20	TERM	

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Varchar2 (60) ;() ; ; Uppercase ? :No ;
ISO 639-2 English term (language)

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ADD_TM_RELATIVEPOSITION Alias :
Display Title :

Comment : TM_RelativePosition (ISO 19108)

Description : This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108. The subset used should be 'Before', 'After' and 'Equals'

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	NAME	NOT NULL	VARCHAR2 (6)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ADD_TM_RELATIVEPOSITION_PK	NAME

Column Detail

5 NAME
Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ADD_UOMLENGTH Alias :
Display Title :

Comment : UomLength (from ISO 19103)

Description : Any of the measuring systems to measure the length, distance between two entities. Example are the English System of feet and inches or the metric system of millimetres, centimetres and meters, also the System International (SI) System of Units.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	NAME	NOT NULL	VARCHAR2 (20)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ADD_UOMLENGTH_PK	NAME

Column Detail

5 NAME

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

Any of the measuring systems to measure the length, distance between two entities. Example are the English System of feet and inches or the metric system of millimetres, centimetres and meters, also the System International (SI) System of Units.

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_CHARSETCD Alias :
Display Title :

Comment : MD_CharacterSetCode (#B5.10)

Description : name of the character coding standard used for the resource

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (20)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_CHARSETCD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_CHARSETCD_UK1	NAME

Column Detail

10	DOMAIN_CODE	CharSetCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	MD_CharacterSetCode	Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
30	DEFINITION		Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ; name of the character coding standard used for the resource

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_COUNTRY Alias :
Display Title :

Description : ISO 3166-1

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	CODE	NOT NULL	CHAR (2)
20	COUNTRY	NOT NULL	VARCHAR2 (60)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_COUNTRY_PK	CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_COUNTRY_UK1	COUNTRY

Column Detail

10 CODE
Optional ? :No ; Char (2) ;() ; ; Uppercase ? :No ;
ISO 3166-1 2 letter code

20 COUNTRY
country (#385)
Optional ? :No ; Varchar2 (60) ;() ; ; Uppercase ? :No ;
country of the physical address

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_DATETYP
Alias :
Display Title :

Comment : CI_DateTypeCode (#B5.2)

Description : identification of when a given event occurred

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (20)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_DATETYPCD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_DATETYPCD_UK1	NAME

Column Detail

10	DOMAIN_CODE	DateTypCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	CI_DateTypeCode	Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
30	DEFINITION		Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ; identification of when a given event occurred

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_ONFUNCTCD Alias :
Display Title :

Comment : CI_OnLineFunctionCode (#B5.3)

Description : function performed by the resource

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (20)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_ONFUNCTCD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_ONFUNCTCD_UK1	NAME

Column Detail

10	DOMAIN_CODE	OnFunctCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	CI_OnLineFunctionCode	Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
30	DEFINITION	function performed by the resource	Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_ROLECD Alias :
Display Title :

Comment : CI_RoleCode (#B5.5)

Description : function performed by the responsible party

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (25)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_ROLECD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_ROLECD_UK1	NAME

Column Detail

10	DOMAIN_CODE	RoleCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	CI_RoleCode	Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
30	DEFINITION	function performed by the responsible party	Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_SPATREPTYPCD Alias :
Display Title :

Comment : MD_SpatialRepresentationTypeCode (#B5.26)

Description : method used to represent geographic information in the dataset

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (20)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_SPATREPTYPCD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_SPATREPTYPCD_UK1	NAME

Column Detail

10	DOMAIN_CODE	SpatRepTypCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	MD_SpatialRepresentationTypeCode	Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
30	DEFINITION	method used to represent geographic information in the dataset	Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Table Name : DIC_ISO_TOPICCATCD Alias :
Display Title :

Comment : MD_TopicCategoryCode (#B5.27)

Description : high-level geographic data thematic classification to assist in the grouping and search of available geographic data sets. Can be used to group keywords as well.
Listed examples are not exhaustive.
NOTE It is understood there are overlaps between general categories and the user is encouraged to select the one most appropriate.

Notes : Added ISO_ into table name KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOMAIN_CODE	NOT NULL	VARCHAR2 (5)
20	NAME	NOT NULL	VARCHAR2 (40)
30	DEFINITION	NOT NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
DIC_ISO_TOPICCATCD_PK	DOMAIN_CODE

Other Unique Keys

<u>Name</u>	<u>Column</u>
DIC_ISO_TOPICCATCD_UK1	NAME

Column Detail

10	DOMAIN_CODE	TopicCatCd	Optional ? :No ; Varchar2 (5) ;() ; ; Uppercase ? :No ;
20	NAME	MD_TopicCategoryCode	Optional ? :No ; Varchar2 (40) ;() ; ; Uppercase ? :No ;
30	DEFINITION	high-level geographic data thematic classification to assist in the grouping and search of available geographic data sets. Can be used to group keywords as	Optional ? :No ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Column Detail

well.

Listed examples are not exhaustive.

NOTE It is understood there are overlaps between general categories and the user is encouraged to select the one most appropriate.

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_CITATION Alias :
Display Title :

Synonyms: CITATION

Comment : CI_Citation (#359)

Description : standardized resource reference

Notes : This is a separate table because, although it has a 1:1 relationship with DATAIDENT, it may be used on its own to record details on non-geographic data ... such as a thesaurus reference/identification.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_CITATION_ID	NOT NULL	NUMBER (15)
20	RESTITLE	NOT NULL	VARCHAR2 (160)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_CITATION_PK	ADD_CITATION_ID

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
ISO_CITATION_U1	0	RESTITLE	UNIQUE

Column Detail

5	ADD_CITATION_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; unique identifier for the citation
20	RESTITLE	title (#360) Optional ? :No ; Varchar2 (160) ;() ; ; Uppercase ? :No ; name by which the cited resource is known from Citation (#359) - standardized resource reference from idCitation (#24) - citation data for the resource(s)

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_DATACHAR Alias :
Display Title :

Comment : characterSet (#40)

Description : full name of the character coding standard used for the dataset

Notes : "C/ISO/IEC 10646-1 not used?" - so make it mandatory anyway

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	DATACHAR	NOT NULL	VARCHAR2 (20)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_DATACHAR_PK	ADD_DATAIDENT_ID DATACHAR

Foreign Keys

ISO_DATACHAR_FK1

ADD_DATAIDENT_ID references ISO_DATAIDENT.ADD_DATAIDENT_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_DATACHAR_FK2

DATACHAR references DIC_ISO_CHARSETCD.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Column Detail

10 ADD_DATAIDENT_ID
 Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
 Unique identifier for the "dataset"

20 DATACHAR
 characterSet (#40)
 Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Column Detail

full name of the character coding standard used for the dataset

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_DATAIDENT Alias :
Display Title :

Comment : MD_DataIdentification (#36)

Description : information required to identify a dataset

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	MDFILEID	NOT NULL	VARCHAR2 (15)
30	ADD_CITATION_ID	NOT NULL	NUMBER (15)
40	IDABS	NOT NULL	VARCHAR2 (4000)
50	STATEMENT	NOT NULL	VARCHAR2 (4000)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_DATAIDENT_PK	ADD_DATAIDENT_ID

Foreign Keys

ISO_DATAIDENT_FK1

MDFILEID	references	ISO_METADATA.MDFILEID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

ISO_DATAIDENT_FK2

ADD_CITATION_ID	references	ISO_CITATION.ADD_CITATION_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Column Detail

10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"
20	MDFILEID	fileIdentifier (#2)

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Varchar2 (15) ;() ; ; Uppercase ? :No ;
 unique identifier for this metadata file

Notes This is defined as character (to be compliant with ISO
 19115:2003) but will be populated via a sequence

30 ADD_CITATION_ID

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
 unique identifier for the citation

40 IDABS

abstract (#25)

Optional ? :No ; Varchar2 (4000) ;() ; ; Uppercase ? :No ;
 brief narrative summary of the content of the resource(s)

50 STATEMENT

statement (#83)

Optional ? :No ; Varchar2 (4000) ;() ; ; Uppercase ? :No ;
 general explanation of the data producer's knowledge about the lineage of a
 dataset

Notes This has been implemented considerably differently to ISO
 19115:2003 indications. We decided that each "dataset" should
 only have one lineage statement ... so rather than implement a
 lot of the DQ_ area, we've done it this way.

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_DATEREF Alias :
Display Title :

Comment : CI_Date (#393)

Description : reference date and event used to describe it

Notes : 1) This should be in universal time for the purposes fo BGS metadata
2) There must be at least one entry in this table for each
DataIdent/Citation for the ISO 19115:2003 Core

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_CITATION_ID	NOT NULL	NUMBER (15)
10	REFDATETYPE	NOT NULL	VARCHAR2 (20)
30	REFDATE	NOT NULL	DATE
40	ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
50	ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_DATEREF_PK	ADD_CITATION_ID REFDATETYPE

Column Detail

5	ADD_CITATION_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; unique identifier for the citation
10	REFDATETYPE	dateType (#395) Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ; event used for reference date
30	REFDATE	date Optional ? :No ; Date ;() ; ; Uppercase ? :No ; reference date for the cited resource
40	ADD_REFDATEPRECISION	

Container : ISO Metadata Version :

Foreign Keys

ISO_DATEREF_FK1

ADD_CITATION_ID references ISO_CITATION.ADD_CITATION_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_DATEREF_FK2

REFDATEATYPE references DIC_ISO_DATETYPED.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_DATEREF_FK3

ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_DATEREF_FK4

ADD_TM_RELATIVEPOSITION references DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Column Detail

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
 precison of reference date for the cited resource

50 ADD_TM_RELATIVEPOSITION

TM_RelativePosition (ISO 19108)

Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;

This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
 The subset used should be 'Before', 'After' and 'Equals' with a default value
 of 'Equals'

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_DIGTRANOPS Alias :
Display Title :

Comment : MD_DigitalTransferOptions (#274)

Description : technical means and media by which a resource is obtained from the distributor

Notes : There could also be an additional table related to FORMAT, rather than DATAIDENT

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	ADD_ONLINERES_ID	NOT NULL	NUMBER (15)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_DIGTRANOPS_PK	ADD_DATAIDENT_ID ADD_ONLINERES_ID

Foreign Keys

ISO_DIGTRANOPS_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

ISO_DIGTRANOPS_FK2

ADD_ONLINERES_ID	references	ISO_ONLINERES.ADD_ONLINERES_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Column Detail

10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"
20	ADD_ONLINERES_ID	

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique Identifier for the on-line resource

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_EMAILADD Alias :
Display Title :

Comment : electronicMailAddress (#386)

Description : address of the electronic mailbox of the responsible organization or individual

Notes : The whole system of addresses and contacts is unimplementable within the time available - so this area has been rationised to reflect reality and practicality. The data need checking regularly.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
20	EMAILADD	NOT NULL	VARCHAR2 (80)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_EMAILADD_PK	ADD_RESPARTY_ID EMAILADD

Foreign Keys

ISO_EMAILADD_FK1

ADD_RESPARTY_ID	references	ISO_RESPPARTY.ADD_RESPARTY_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

Column Detail

10	ADD_RESPARTY_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier of the responsible party
20	EMAILADD	electronicMailAddress (#386) Optional ? :No ; Varchar2 (80) ;() ; ; Uppercase ? :No ; address of the electronic mailbox of the responsible organization or individual

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_EXTEMP_GEOBNDBOX Alias :
Display Title :

Comment : extent (#351)

Description : date and time for the content of the dataset (for the geographic bounding box)

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	EXTEMP_ID	NOT NULL	NUMBER (15)
10	ADD_GEOBNDBOX_ID	NOT NULL	NUMBER (15)
20	BEGIN_REFDATE	NOT NULL	DATE
30	BEGIN_ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
40	BEGIN_ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)
50	END_REFDATE	NOT NULL	DATE
60	END_ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
70	END_ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_EXTEMP_GEOBNDBOX_PK	EXTEMP_ID

Column Detail

5 EXTEMP_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "temporal extent" of the "spatial extent"

10 ADD_GEOBNDBOX_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "geographic bounding box" for the "dataset"

20 BEGIN_REFDATE
date
Optional ? :No ; Date ;() ; ; Uppercase ? :No ;
reference date for the cited resource

30 BEGIN_ADD_REFDATEPRECISION

Table Definition

Container : ISO Metadata Version :

Foreign Keys

ISO_EXTEMP_GEOBNDBOX_FK1

BEGIN_ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEOBNDBOX_FK2

BEGIN_ADD_TM_RELATIVEPOSITION references
 DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEOBNDBOX_FK3

END_ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEOBNDBOX_FK4

END_ADD_TM_RELATIVEPOSITION references
 DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEOBNDBOX_FK5

ADD_GEOBNDBOX_ID references ISO_GEOBNDBOX.ADD_GEOBNDBOX_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
ISO_EXTEMP_GEOBNDBOX_CK1	END_REFDATE>=BEGIN_REFDATE

Column Detail

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
 precison of reference date for the cited resource

40 BEGIN_ADD_TM_RELATIVEPOSITION
 TM_RelativePosition (ISO 19108)
 Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;
 This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
 The subset used should be 'Before', 'After' and 'Equals' with a default value
 of 'Equals'

50 END_REFDATE
 date

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Date ;() ; ; Uppercase ? :No ;
reference date for the cited resource

60 END_ADD_REFDATEPRECISION

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
precision of reference date for the cited resource

70 END_ADD_TM_RELATIVEPOSITION

TM_RelativePosition (ISO 19108)

Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;
This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
The subset used should be 'Before', 'After' and 'Equals' with a default value
of 'Equals'

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_EXTEMP_GEODESC Alias :
Display Title :

Comment : extent (#351)

Description : date and time for the content of the dataset (for the geographic area)

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	EXTEMP_ID	NOT NULL	NUMBER (15)
15	ADD_GEODESC_ID	NOT NULL	NUMBER (15)
20	BEGIN_REFDATE	NOT NULL	DATE
30	BEGIN_ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
40	BEGIN_ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)
50	END_REFDATE	NOT NULL	DATE
60	END_ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
70	END_ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_EXTEMP_GEODESC_PK	EXTEMP_ID

Column Detail

5 EXTEMP_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "temporal extent" of the "spatial extent"

15 ADD_GEODESC_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "geographic area description"

20 BEGIN_REFDATE
date
Optional ? :No ; Date ;() ; ; Uppercase ? :No ;
reference date for the cited resource

30 BEGIN_ADD_REFDATEPRECISION
Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Foreign Keys

ISO_EXTEMP_GEODESC_FK1

BEGIN_ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEODESC_FK2

BEGIN_ADD_TM_RELATIVEPOSITION references
 DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEODESC_FK3

END_ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEODESC_FK4

END_ADD_TM_RELATIVEPOSITION references
 DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_EXTEMP_GEODESC_FK5

ADD_GEODESC_ID references ISO_GEODESC.ADD_GEODESC_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
ISO_EXTEMP_GEODESC_CK1	END_REFDATE>=BEGIN_REFDATE

Column Detail

precision of reference date for the cited resource

40 BEGIN_ADD_TM_RELATIVEPOSITION

TM_RelativePosition (ISO 19108)

Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;

This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
 The subset used should be 'Before', 'After' and 'Equals' with a default value
 of 'Equals'

50 END_REFDATE

date

Optional ? :No ; Date ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Column Detail

reference date for the cited resource

60 END_ADD_REFDATEPRECISION

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

precision of reference date for the cited resource

70 END_ADD_TM_RELATIVEPOSITION

TM_RelativePosition (ISO 19108)

Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;

This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
The subset used should be 'Before', 'After' and 'Equals' with a default value
of 'Equals'

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_FORMAT Alias :
Display Title :

Comment : MD_Format (#284)

Description : description of the computer language construct that specifies the representation of data objects in a record, file, message, storage device or transmission channel

Notes : This whole area could get complex - because if we define a distributor, they could have formats attached to them (in which they could supply all data - see #270), then this wouldn't be related to the dataset, but rather to the distributor (which would be related to the dataset)

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_FORMAT_ID	NOT NULL	NUMBER (15)
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
30	FORMATNAME	NOT NULL	VARCHAR2 (240)
40	FORMATVER	NOT NULL	VARCHAR2 (240)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_FORMAT_PK	ADD_FORMAT_ID

Foreign Keys

ISO_FORMAT_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

Column Detail

5	ADD_FORMAT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the format for the "dataset"
10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Column Detail

Unique identifier for the "dataset"

30 FORMATNAME

name (#285)

Optional ? :No ; Varchar2 (240) ;() ; ; Uppercase ? :No ;

name of the data transfer format(s)

40 FORMATVER

version (#286)

Optional ? :No ; Varchar2 (240) ;() ; ; Uppercase ? :No ;

version of the format (date, number, etc.)

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_GEOBNDBOX Alias :
Display Title :

Comment : EX_GeographicBoundingBox (#343)

Description : geographic position of the dataset NOTE This is only an approximate
reference so specifying the coordinate reference system is unnecessary

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_GEOBNDBOX_ID	NOT NULL	NUMBER (15)
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	EXTYPECODE	NOT NULL	CHAR (1)
30	WESTBL	NOT NULL	NUMBER (5, 2)
40	EASTBL	NOT NULL	NUMBER (5, 2)
50	SOUTHBL	NOT NULL	NUMBER (4, 2)
60	NORTHBL	NOT NULL	NUMBER (4, 2)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_GEOBNDBOX_PK	ADD_GEOBNDBOX_ID

Foreign Keys

ISO_GEOBNDBOX_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

Column Detail

5	ADD_GEOBNDBOX_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "geograhic bounding box" for the "dataset"
10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"

Table Definition

Container : ISO Metadata Version :

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
ISO_GEOBNDBOX_CK1	westBL between -180 and 180
ISO_GEOBNDBOX_CK2	eastBL between -180 and 180
ISO_GEOBNDBOX_CK3	southBL between -90 and 90
ISO_GEOBNDBOX_CK4	northBL between -90 and 90 and northBL>=southBL
ISO_GEOBNDBOX_CK5	exTypeCode in ('0','1')

Column Detail

20	EXTYPECODE extentTypeCode (#340) Optional ? :No ; Char (1) ;() ; ; Uppercase ? :No ; indication of whether the bounding polygon encompasses an area covered by the data or an area where data is not present <u>Notes</u> Although this is optional in ISO 19115, it seems sensible to make it mandatory!
30	WESTBL westBoundLongitude (#344) Optional ? :No ; Number (5, 2) ;() ; ; Uppercase ? :No ; western-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east)
40	EASTBL eastBoundLongitude (#345) Optional ? :No ; Number (5, 2) ;() ; ; Uppercase ? :No ; eastern-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east)
50	SOUTHBL southBoundLatitude (#346) Optional ? :No ; Number (4, 2) ;() ; ; Uppercase ? :No ; southern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north)
60	NORTHBL northBoundLatitude (#347) Optional ? :No ; Number (4, 2) ;() ; ; Uppercase ? :No ; northern-most, coordinate of the limit of the dataset extent expressed in latitude in decimal degrees (positive north)

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_GEODESC Alias :
Display Title :

Comment : EX_GeographicDescription (#348)

Description : description of the geographic area using identifiers

Notes : From: Holmes, Keith A
Sent: 08 August 2003 08:23
To: Howcroft, John R; Ault, Linda
Subject: EXTEMP_ID in GEODESC

John and Linda

I'll remove Extemp_Id from GEODESC .. it's left over from an earlier design.

It's useful to document how this came about ... because this is the area of the core design that is most likely to change.

1) Ian Jackson's associate (Per ? who's on the ISO committee) says GEODESC shouldn't be done in this way but I've asked him several times how it should be done and he hasn't responded. [There is another way, but involves use of free text not controlled by a TGN - which I've not included)

2) Jerry Giles's associate (Rob ?) says he can't see how else it could be done.

So I've chosen to follow 2) which avoids the extra complication of following 1) --- but may or may not be right --- no-one knows for sure.

Finally, temporal coordinates could be applied to a dataset rather than the geographic extents of a dataset. I decided eventually to avoid complication by not including this option - and take the position that non-geographic datasets had a GEODESC of "Earth" (or whatever). Was I right in doing this? Let me know ASAP if I wasn't because I can fix it readily.

Keith

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_GEODESC_ID	NOT NULL	NUMBER (15)
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	EXTYPECODE	NOT NULL	CHAR (1)

Table Definition

Container : ISO Metadata Version :

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
40	IDENTAUTH	NULL	NUMBER (15)
50	IDENTCODE	NOT NULL	VARCHAR2 (80)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_GEODESC_PK	ADD_GEODESC_ID

Foreign Keys

ISO_GEODESC_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

ISO_GEODESC_FK2

IDENTAUTH	references	ISO_CITATION.ADD_CITATION_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
ISO_GEODESC_CK1	exTypeCode in ('0','1')

Column Detail

5	ADD_GEODESC_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "geographic area description"
10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"
20	EXTYPECODE	extentTypeCode (#340) Optional ? :No ; Char (1) ;() ; ; Uppercase ? :No ; indication of whether the bounding polygon encompasses an area covered by the data or an area where data is not present
	<u>Notes</u>	Although this is optional in ISO 19115, it seems sensible to make it mandatory!
40	IDENTAUTH	authority (#206)

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :Yes ; Number (15) ;() ; ; Uppercase ? :No ;
person or party responsible for maintenance of the namespace

Notes Not an exact equivalent to #206 - it's a link to this class (i.e
the PK of the class)

50 IDENTCODE

code (#207)

Optional ? :No ; Varchar2 (80) ;() ; ; Uppercase ? :No ;
alphanumeric value identifying an instance in the namespace

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_IDPOC Alias :
Display Title :

Comment : pointOfContact (#29)

Description : identification of, and means of communication with, person(s) and organization(s) associated with the resource(s)

Notes : The whole system of addresses and contacts is unimplementable within the time available - so this area has been rationised to reflect reality and practicality. The data need checking regularly.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
30	ROLE	NOT NULL	VARCHAR2 (25)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_IDPOC_PK	ADD_DATAIDENT_ID ADD_RESPARTY_ID ROLE

Foreign Keys

ISO_IDPOC_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

ISO_IDPOC_FK2

ADD_RESPARTY_ID	references	ISO_RESPPARTY.ADD_RESPARTY_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

ISO_IDPOC_FK3

ROLE	references	DIC_ISO_ROLECD.NAME
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Table Definition

Container : ISO Metadata Version :

Column Detail

10 ADD_DATAIDENT_ID

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "dataset"

20 ADD_RESPARTY_ID

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier of the responsible party

30 ROLE

role (#379)

Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
function performed by the responsible party

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_MDCONTACT Alias :
Display Title :

Comment : contact (#8)

Description : party responsible for the metadata information

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	MDFILEID	NOT NULL	VARCHAR2 (15)
20	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
30	ROLE	NOT NULL	VARCHAR2 (25)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_MDCONTACT_PK	MDFILEID ADD_RESPARTY_ID ROLE

Foreign Keys

ISO_MDCONTACT_FK1

MDFILEID	references	ISO_METADATA.MDFILEID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

ISO_MDCONTACT_FK2

ADD_RESPARTY_ID	references	ISO_RESPARTY.ADD_RESPARTY_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

ISO_MDCONTACT_FK3

ROLE	references	DIC_ISO_ROLECD.NAME
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Column Detail

5 MDFILEID

Table Definition

Container : ISO Metadata Version :

Column Detail

fileIdentifier (#2)

Optional ? :No ; Varchar2 (15) ;() ; ; Uppercase ? :No ;

unique identifier for this metadata file

Notes This is defined as character (to be compliant with ISO 19115:2003) but will be populated via a sequence

20 ADD_RESPARTY_ID

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;

Unique identifier of the responsible party

30 ROLE

role (#379)

Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;

function performed by the responsible party

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_METADATA Alias :
Display Title :

Comment : MD_Metadata (#1)

Description : root entity which defines metadata about a resource or resources

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	MDFILEID	NOT NULL	VARCHAR2 (15)
20	MDSTANNAME	NULL	VARCHAR2 (240)
30	MDSTANVER	NULL	VARCHAR2 (240)
35	MDLANG	NOT NULL	VARCHAR2 (60)
40	MDCHAR	NOT NULL	VARCHAR2 (20)
45	MDDATEST	NOT NULL	DATE
70	ADD_REFDATEPRECISION	NOT NULL	VARCHAR2 (20)
80	ADD_TM_RELATIVEPOSITION	NOT NULL	VARCHAR2 (6)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_METADATA_PK	MDFILEID

Column Detail

5 MDFILEID
fileIdentifier (#2)
Optional ? :No ; Varchar2 (15) ;() ; ; Uppercase ? :No ;
unique identifier for this metadata file
Notes This is defined as character (to be compliant with ISO 19115:2003) but will be populated via a sequence

20 MDSTANNAME
metadataStandardName (#10)
Optional ? :Yes ; Varchar2 (240) ;() ; ; Uppercase ? :No ;
name of the metadata standard (including profile name) used

30 MDSTANVER
metadataStandardVersion (#11)
Optional ? :Yes ; Varchar2 (240) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Foreign Keys

ISO_METADATA_FK1

MDLANG references DIC_ADD_LANGUAGE.TERM
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_METADATA_FK2

MDCHAR references DIC_ISO_CHARSETCD.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_METADATA_FK3

ADD_REFDATEPRECISION references DIC_ADD_DATEPRCN.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

ISO_METADATA_FK4

ADD_TM_RELATIVEPOSITION references DIC_ADD_TM_RELATIVEPOSITION.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Column Detail

version (profile) of the metadata standard used

35 MDLANG

language (#3)

Optional ? :No ; Varchar2 (60) ;() ; ; Uppercase ? :No ;

language used for documenting metadata

Notes The obligation is "C / not defined by encoding?" so best to make it mandatory

40 MDCHAR

characterSet (#4)

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

full name of the character coding standard used for the metadata set

Notes The obligation is "C / ISO/IEC 10646-1 not used and not defined by encoding?" so best to make it mandatory

45 MDDATEST

dateStamp

Optional ? :No ; Date ;() ; ; Uppercase ? :No ;

date that the metadata was created

Notes There's no need for a dateType here because the definition says it's "creation"

70 ADD_REFDATEPRECISION

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

Table Definition

Container : ISO Metadata Version :

Column Detail

precision of reference date for the cited resource

80 ADD_TM_RELATIVEPOSITION

TM_RelativePosition (ISO 19108)

Optional ? :No ; Varchar2 (6) ;() ; ; Uppercase ? :No ; Default Value :Equals ;

This contains part of the <<Data Type>> TM_RelativePosition from ISO 19108.
The subset used should be 'Before', 'After' and 'Equals' with a default value
of 'Equals'

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_ONLINERES Alias :
Display Title :

Comment : CI_OnlineResource (#396)

Description : information about on-line sources from which the dataset,
specification, or community profile name and extended metadata
elements can be obtained

Notes : Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_ONLINERES_ID	NOT NULL	NUMBER (15)
20	LINKAGE	NOT NULL	VARCHAR2 (1024)
30	PROTOCOL	NULL	VARCHAR2 (256)
40	APPPROFILE	NULL	VARCHAR2 (256)
50	ORNAME	NULL	VARCHAR2 (256)
60	ORDESC	NULL	VARCHAR2 (1024)
70	ORFUNCT	NULL	VARCHAR2 (20)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_ONLINERES_PK	ADD_ONLINERES_ID

Foreign Keys

ISO_ONLINERES_FK1
 ORFUNCT references DIC_ISO_ONFUNCTCD.NAME
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
ISO_ONLINERES_U1	0	LINKAGE	UNIQUE
ISO_ONLINERES_U1	2	ORFUNCT	UNIQUE

Column Detail

Table Definition

Container : ISO Metadata Version :

Column Detail

10 ADD_ONLINERES_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique Identifier for the on-line resource

20 LINKAGE
linkage (#397)
Optional ? :No ; Varchar2 (1024) ;() ; ; Uppercase ? :No ;
location (address) for on-line access using a Uniform Resource Locator address
or similar addressing scheme such as http://www.statkart.no/isotc211

30 PROTOCOL
protocol (#398)
Optional ? :Yes ; Varchar2 (256) ;() ; ; Uppercase ? :No ;
connection protocol to be used

40 APPPROFILE
applicationProfile (#399)
Optional ? :Yes ; Varchar2 (256) ;() ; ; Uppercase ? :No ;
name of an application profile that can be used with the online resource

50 ORNAME
name (#400)
Optional ? :Yes ; Varchar2 (256) ;() ; ; Uppercase ? :No ;
name of the online resource

60 ORDESC
description (#401)
Optional ? :Yes ; Varchar2 (1024) ;() ; ; Uppercase ? :No ;
detailed text description of what the online resource is/does

70 ORFUNCT
function (#402)
Optional ? :Yes ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
code for function performed by the online resource

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Number (9) ;() ; ; Uppercase ? :No ;

name of reference system

Notes Although this is a class, the info should be in the EPSG system

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_REPFRACT Alias :
Display Title :

Comment : MD_RepresentativeFraction (#56)

Description : derived from ISO 19103 Scale where MD_Representative
Fraction.denominator = 1 / Scale.measure And Scale.targetUnits
=Scale.sourceUnitsNotes : RESOL and REPFRACT are "either/or" in ISO 19115:2003 - but it's all
optional anyway

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	RFDENOM	NOT NULL	NUMBER (15)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_REPFRACT_PK	ADD_DATAIDENT_ID RFDENOM

Foreign Keys

ISO_REPFRACT_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

Column Detail

10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"
20	RFDENOM	denominator (#57) Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; the number below the line in a vulgar fraction
	<u>Notes</u>	From equivalentScale (#60) - level of detail expressed as the

Table Definition

Container : ISO Metadata Version :

Column Detail

scale of a comparable hardcopy map or chart

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_RESOL Alias :
Display Title :

Comment : MD_Resolution (#59)

Description : level of detail expressed as a scale factor or a ground distance

Notes : RESOL and REPFRACT are "either/or" in ISO 19115:2003 - but it's all optional anyway

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	SCALEDIST	NOT NULL	NUMBER (15)
30	ADD_UOMLENGTH	NOT NULL	VARCHAR2 (20)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_RESOL_PK	ADD_DATAIDENT_ID SCALEDIST ADD_UOMLENGTH

Foreign Keys

ISO_RESOL_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	No	Delete Rule : Restricted

ISO_RESOL_FK2

ADD_UOMLENGTH	references	DIC_ADD_UOMLENGTH.NAME
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Column Detail

10	ADD_DATAIDENT_ID
	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
	Unique identifier for the "dataset"

Table Definition

Container : ISO Metadata Version :

Column Detail

20 SCALEDIST

distance (#61)

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;

ground sample distance

30 ADD_UOMLENGTH

UomLength (From ISO 19103)

Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;

Any of the measuring systems to measure the length, distance between two entities. Example are the English System of feet and inches or the metric system of millimetres, centimetres and meters, also the System International (SI) System of Units.

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_RESPPARTY Alias :
Display Title :

Comment : CI_ResponsibleParty (#374)

Description : identification of, and means of communication with, person(s) and organizations associated with the dataset

Notes : The whole system of addresses and contacts is unimplementable within the time available - so this area has been rationised to reflect reality and practicality. The data need checking regularly.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
20	RPINDNAME	NULL	VARCHAR2 (120)
30	RPORGNAME	NULL	VARCHAR2 (120)
40	RPPOSNAME	NULL	VARCHAR2 (40)
50	DELPOINT	NULL	CLOB ()
60	CITY	NULL	VARCHAR2 (60)
70	ADMINAREA	NULL	VARCHAR2 (40)
80	POSTCODE	NULL	VARCHAR2 (40)
90	COUNTRY	NULL	VARCHAR2 (60)
100	CNTONLINERES	NULL	NUMBER (15)
110	CNTHOURS	NULL	VARCHAR2 (2000)
120	CNTINSTR	NULL	VARCHAR2 (2000)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_RESPPARTY_PK	ADD_RESPARTY_ID

Column Detail

10 ADD_RESPARTY_ID

Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;

Unique identifier of the responsible party

Notes This is wrongly named - it should be ADD_RESPPARTY_ID (two p's) - but as it's not an ISO field, decided to leave as is (KAH 28 Jul 2003)

Container : ISO Metadata Version :

Foreign Keys

ISO_RESPARTY_FK1

COUNTRY references DIC_ISO_COUNTRY.COUNTRY
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

ISO_RESPARTY_FK2

CNTONLINERES references ISO_ONLINERES.ADD_ONLINERES_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
ISO_RESPPARTY_CK1	not (RPINDNAME is null and RPORGNAME is null and RPPOSNAME is null)

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
ISO_RESPPARTY_U1	0	RPINDNAME	UNIQUE
ISO_RESPPARTY_U1	2	RPORGNAME	UNIQUE
ISO_RESPPARTY_U1	4	RPPOSNAME	UNIQUE

Column Detail

20 RPINDNAME
 individualName (#375)
 Optional ? :Yes ; Varchar2 (120) ;() ; ; Uppercase ? :No ;
 name of the responsible person-surname, given name, title separated by a
 delimiter
Notes This could be split up into 3 fields - but why? Just following
 the formatting rules is better

30 RPORGNAME
 organisationName (#376)
 Optional ? :Yes ; Varchar2 (120) ;() ; ; Uppercase ? :No ;
 name of the responsible organization

40 RPPOSNAME
 positionName (#377)
 Optional ? :Yes ; Varchar2 (40) ;() ; ; Uppercase ? :No ;
 role or position of the responsible person

50 DELPOINT

Table Definition

Container : ISO Metadata Version :

Column Detail

deliveryPoint (#381)

Optional ? :Yes ; Clob () ;() ; ; Uppercase ? :No ;

address line for the location (as described in ISO 11180, Annex A)

Notes

This is a multi-line 1:many in ISO 19115:2003 but surely it's better to be done as a CLOB?

60

CITY

city (#382)

Optional ? :Yes ; Varchar2 (60) ;() ; ; Uppercase ? :No ;

city of the location

70

ADMINAREA

administrativeArea (#383)

Optional ? :Yes ; Varchar2 (40) ;() ; ; Uppercase ? :No ;

state, province of the location

80

POSTCODE

postalCode (#384)

Optional ? :Yes ; Varchar2 (40) ;() ; ; Uppercase ? :No ;

ZIP or other postal code

90

COUNTRY

country (#385)

Optional ? :Yes ; Varchar2 (60) ;() ; ; Uppercase ? :No ;

country of the physical address

100

CNTONLINERES

onlineResource (#390)

Optional ? :Yes ; Number (15) ;() ; ; Uppercase ? :No ;

on-line information that can be used to contact the individual or organization

110

CNTHOURS

hoursOfService (#391)

Optional ? :Yes ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

time period (including time zone) when individuals can contact the organization or individual

120

CNTINSTR

contactInstructions (#392)

Optional ? :Yes ; Varchar2 (2000) ;() ; ; Uppercase ? :No ;

supplemental instructions on how or when to contact the individual or organization

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_TELEPHONE_1 Alias :
Display Title :

Comment : CI_Telephone (#407)

Description : telephone numbers for contacting the responsible individual or organization

Notes : The whole system of addresses and contacts is unimplementable within the time available - so this area has been rationised to reflect reality and practicality. The data need checking regularly.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
20	VOICENUM	NOT NULL	VARCHAR2 (25)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_TELEPHONE_1_PK	ADD_RESPARTY_ID VOICENUM

Foreign Keys

ISO_TELEPHONE_1_FK1
 ADD_RESPARTY_ID references ISO_RESPPARTY.ADD_RESPARTY_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Column Detail

10 ADD_RESPARTY_ID
 Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
 Unique identifier of the responsible party

20 VOICENUM
 voice (#408)
 Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
 telephone number by which individuals can speak to the responsible organization or individual

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_TELEPHONE_2 Alias :
Display Title :

Comment : CI_Telephone (#407)

Description : telephone numbers for contacting the responsible individual or organization

Notes : The whole system of addresses and contacts is unimplementable within the time available - so this area has been rationised to reflect reality and practicality. The data need checking regularly.

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_RESPARTY_ID	NOT NULL	NUMBER (15)
20	FAXNUM	NOT NULL	VARCHAR2 (25)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_TELEPHONE_2_PK	ADD_RESPARTY_ID FAXNUM

Foreign Keys

ISO_TELEPHONE_2_FK1
 ADD_RESPARTY_ID references ISO_RESPPARTY.ADD_RESPARTY_ID
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? No Delete Rule : Restricted

Column Detail

10 ADD_RESPARTY_ID
 Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
 Unique identifier of the responsible party

20 FAXNUM
 facsimile (#409)
 Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
 telephone number of a facsimile machine for the responsible organization or individual

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_TPCAT Alias :
Display Title :

Comment : topicCategory (#41)

Description : main theme(s) of the dataset

Notes : "C / if hierarchyLevel equals ?dataset??" .. so make it mandatory
anyway

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
20	TPCAT	NOT NULL	VARCHAR2 (40)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_TPCAT_PK	ADD_DATAIDENT_ID TPCAT

Foreign Keys

ISO_TPCAT_FK1

ADD_DATAIDENT_ID	references	ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

ISO_TPCAT_FK2

TPCAT	references	DIC_ISO_TOPICCATCD.NAME
Transferable ?	Yes	Update Rule : Restricted
Mandatory ?	Yes	Delete Rule : Restricted

Column Detail

10	ADD_DATAIDENT_ID	Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ; Unique identifier for the "dataset"
20	TPCAT	topicCategory (#41)

Table Definition

Container : ISO Metadata Version :

Column Detail

Optional ? :No ; Varchar2 (40) ;() ; ; Uppercase ? :No ;
main theme(s) of the dataset

Table Definition

Container : ISO Metadata Version :

Table Name : ISO_VERTEXTENT Alias :
Display Title :

Comment : EX_VerticalExtent (#354)

Description : vertical domain of dataset

Notes : Changed Vertdatum to Number(9) KAH 20 Apr 2004

Renamed table with ISO_ prefix KAH 20 Apr 2004

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
5	ADD_VERTEXTENT_ID	NOT NULL	NUMBER (15)
10	ADD_DATAIDENT_ID	NOT NULL	NUMBER (15)
30	VERTMINVAL	NOT NULL	NUMBER (15, 5)
40	VERTMAXVAL	NOT NULL	NUMBER (15, 5)
50	VERTUOM	NOT NULL	VARCHAR2 (20)
60	VERTDATUM	NOT NULL	NUMBER (9)

Primary Key

<u>Name</u>	<u>Column</u>
ISO_VERTEXTENT_PK	ADD_VERTEXTENT_ID

Foreign Keys

ISO_VERTEXTENT_FK1

ADD_DATAIDENT_ID references ISO_DATAIDENT.ADD_DATAIDENT_ID
Transferable ? Yes Update Rule : Restricted
Mandatory ? No Delete Rule : Restricted

ISO_VERTEXTENT_FK2

VERTUOM references DIC_ADD_UOMLENGTH.NAME
Transferable ? Yes Update Rule : Restricted
Mandatory ? Yes Delete Rule : Restricted

ISO_VERTEXTENT_FK3

VERTDATUM references DIC_ADD_EPSG.CODE
Transferable ? Yes Update Rule : Restricted
Mandatory ? Yes Delete Rule : Restricted

Table Definition

Container : ISO Metadata Version :

Column Detail

5 ADD_VERTTEXTENT_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "vertical extent" for the "dataset"

10 ADD_DATAIDENT_ID
Optional ? :No ; Number (15) ;() ; ; Uppercase ? :No ;
Unique identifier for the "dataset"

30 VERTMINVAL
minimumValue (#355)
Optional ? :No ; Number (15, 5) ;() ; ; Uppercase ? :No ;
lowest vertical extent contained in the dataset

40 VERTMAXVAL
maximumValue (#356)
Optional ? :No ; Number (15, 5) ;() ; ; Uppercase ? :No ;
highest vertical extent contained in the dataset

50 VERTUOM
unitOfMeasure (#357)
Optional ? :No ; Varchar2 (20) ;() ; ; Uppercase ? :No ;
vertical units used for vertical extent information Examples: metres, feet,
millimetres, hectopascals

60 VERTDATUM
role name: verticalDatum (#358)
Optional ? :No ; Number (9) ;() ; ; Uppercase ? :No ;
provides information about the origin from which the maximum and minimum
elevation values are measured

Oracle Designer

TABLE DEFINITION

End of Report