
LOGICAL MODEL

FOR PROJECT

Gimnasio "Siempre en forma"

MODEL

Principal

Version 1.0

Created: 20/06/2020
Last modified: 20/06/2020

Entity report

Entity name	Entity type	Primary key	# attributes
aparato	independent	id	4
clase	independent	id	6
estado conservacion	independent	id	2
estado pista	independent	id	2
monitor	independent	id	6
monitor imparte clase	dependent	id, id	2
reserva	independent	id	6
sala	independent	id	5
sala aparato	dependent	id, id	2
socio	independent	id	5
socio clase	dependent	id, id	2
squash	independent	id	4
tipo sala	independent	id	2

Entity 'aparato'

Entity name	aparato
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Identificador interno del aparato
	referencia	Text	YES	YES	Código del aparato su valor debe ser único
	descripcion	Text	YES	NO	Descripcion y características del aparato
FK	id/estado conservacion	Long Integer	YES	NO	El valor por defecto al momento de crearse el registro es 0=> Por determinar

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R02	Non-identifying	estado conservacion	aparato	1:N
R04	Identifying	aparato	sala aparato	1:N

Notes

Inventario de Aparatos del Gimnasio

Entity 'clase'

Entity name	clase
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Identificador interno de la clase
	referencia	Text	YES	YES	Código de referencia de la clase su valor es único
	descripcion	Memo	YES	NO	Descripción de la clase
	dia	Integer	YES	NO	Se elige el día de la semana a través de una lista -1. No se ha asignado el día (defecto) 0.- Domingo 1.- Lunes 2.- Martes 3.- Miércoles 4.- Jueves 5.- Viernes 6.- Sábado
	hora	Date/Time	YES	NO	Hora en la que se imparte la clase
FK	id/sala	Long Integer	NO	NO	Debe Tener asignada una sala, puedes asignar una sala después?

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R05	Non-identifying	sala	clase	1:N
R07	Identifying	clase	monitor imparte clase	1:N
R09	Identifying	clase	socio clase	1:N

Entity 'estado conservacion'

Entity name	estado conservacion
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Codigo del estado de conservación
	nombre	Text	YES	NO	Denominacion del estado de conservación

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R02	Non-identifying	estado conservacion	aparato	1:N

Notes

Se pueden establece los siguientes valores como ejemplo

- 0.- Por determinar
- 1.- Muy malo
- 2.- Malo
- 3.- Bueno
- 4.- Muy Bueno
- 5.- En excelentes condiciones

Entity 'estado pista'

Entity name	estado pista
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	NO	NO	Identificador del estado
	nombre	Text	NO	NO	

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R11	Non-identifying	estado pista	squash	1:N

Notes

Estado definidos para la pista squash

Determinar cuales son esos estados

Entity 'monitor'

Entity name	monitor
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Identificador interno único
	dni	Text	YES	YES	DNI es único
	nombres	Text	YES	NO	Nombres
	apellidos	Text	YES	NO	Apellidos
	es titulado	Yes/No	YES	NO	Indica si tiene titulación
	experiencia profesional	Memo	NO	NO	Detalle de la experiencia profesional

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R08	Identifying	monitor	monitor imparte clase	1:N

Entity 'monitor imparte clase'

Entity name	monitor imparte clase
Entity type	dependent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PFK	id/monitor	Long Integer	YES	NO	Identificador interno del monitor, se podria ubicar por su DNI o Apellidos y Nombres
PFK	id/clase	Long Integer	YES	NO	Identificador interno de la clase, se podria ubicar por su referencia

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R07	Identifying	clase	monitor imparte clase	1:N
R08	Identifying	monitor	monitor imparte clase	1:N

Notes

Que clases puede impartir el monitor puede ser una o varias

Entity 'reserva'

Entity name	reserva
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	No de reserva
	fecha	Date/Time	YES	NO	Fecha de la reserva
	hora	Date/Time	YES	NO	Hora de la reserva
	tiempo reserva	Long Integer	YES	NO	Tiempo de reserva en minutos Determinar cuales son los minimos y maximos
FK	id/socio	Long Integer	YES	NO	Socio que pide la reserva
FK	id/squash	Long Integer	YES	NO	Pista de squash reservada

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R12	Non-identifying	squash	reserva	1:N
R13	Non-identifying	socio	reserva	1:N

Entity 'sala'

Entity name	sala
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Código de la Sala
	nombre	Text	YES	NO	Nombre de la Sala
	ubicacion	Text	YES	NO	Ubicación de la Sala
	metraje	Double	YES	NO	Metros cuadrados
FK	id/tipo sala	Long Integer	YES	NO	Tipo de sala, solo puede pertenecer a un tipo de sala

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R01	Non-identifying	tipo sala	sala	1:N
R03	Identifying	sala	sala aparato	1:N
R05	Non-identifying	sala	clase	1:N

Entity 'sala aparato'

Entity name	sala aparato
Entity type	dependent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PKF	id/sala	Long Integer	YES	NO	Código de la Sala
PKF	id/aparato	Long Integer	YES	YES	Referencia del Aparato por su Identificador numérico

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R03	Identifying	sala	sala aparato	1:N
R04	Identifying	aparato	sala aparato	1:N

Notes

Hay salas que tienen aparatos y salas que no
 Determina que sala contiene 0 o mas de un aparato
 Un mismo aparato no puede estar en mas de una sala segun su referencia
 Determina que sala contiene 0 o mas de un aparato

Entity 'socio'

Entity name	socio
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	NO	NO	Identificador Interno del Socio
	codigo	Text	NO	NO	Código establecido para el socio
	direccion	Text	NO	NO	
	telefono	Text	NO	NO	
	profesion	Text	NO	NO	

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R10	Identifying	socio	socio clase	1:N
R13	Non-identifying	socio	reserva	1:N

Entity 'socio clase'

Entity name	socio clase
Entity type	dependent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PFK	id/clase	Long Integer	YES	NO	
PFK	id/socio	Long Integer	NO	NO	

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R09	Identifying	clase	socio clase	1:N
R10	Identifying	socio	socio clase	1:N

Entity 'squash'

Entity name	squash
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	YES	NO	Identificador interno de la pita de squash
	pista	Text	YES	YES	No de pista, único
	ubicacion	Text	YES	NO	Ubicación de la pista
FK	id/estado	Long Integer	YES	NO	Estado de la pista Determinar cuales son esos posibles estadosos

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R11	Non-identifying	estado pista	squash	1:N
R12	Non-identifying	squash	reserva	1:N

Entity 'tipo sala'

Entity name	tipo sala
Entity type	independent

User-defined variables

Name	Value
Linked table	No
Connect	
Source Table Name	
Validation rule	
Validation text	

Attributes

Key	Attribute/role name	Data type	Not null	Unique	Notes
PK	id	Long Integer	NO	NO	Identificador del tipo de Sala
	nombre	Text	NO	NO	Descripción del tipo de Sala

Relationships

Relationship name	Type	Parent entity	Child entity	Card.
R01	Non-identifying	tipo sala	sala	1:N

Notes

Tipo de sala (cardio, general, muscular)

Attribute report

Attribute name	Entity name	Data type	PK	FK
apellidos	monitor	Text	NO	NO
codigo	socio	Text	NO	NO
descripcion	aparato	Text	NO	NO
descripcion	clase	Memo	NO	NO
dia	clase	Integer	NO	NO
direccion	socio	Text	NO	NO
dni	monitor	Text	NO	NO
es titulado	monitor	Yes/No	NO	NO
experiencia profesional	monitor	Memo	NO	NO
fecha	reserva	Date/Time	NO	NO
hora	reserva	Date/Time	NO	NO
hora	clase	Date/Time	NO	NO
id	reserva	Long Integer	NO	YES
id	monitor imparte clase	Long Integer	YES	YES
id	squash	Long Integer	YES	NO
id	tipo sala	Long Integer	YES	NO
id	sala	Long Integer	NO	YES
id	monitor imparte clase	Long Integer	YES	YES
id	reserva	Long Integer	YES	NO
id	socio clase	Long Integer	YES	YES
id	sala	Long Integer	YES	NO
id	socio	Long Integer	YES	NO
id	socio clase	Long Integer	YES	YES
id	clase	Long Integer	YES	NO
id	estado conservacion	Long Integer	YES	NO
id	sala aparato	Long Integer	YES	YES
id	squash	Long Integer	NO	YES
id	sala aparato	Long Integer	YES	YES
id	aparato	Long Integer	NO	YES
id	monitor	Long Integer	YES	NO
id	estado pista	Long Integer	YES	NO
id	clase	Long Integer	NO	YES
id	reserva	Long Integer	NO	YES
id	aparato	Long Integer	YES	NO
metraje	sala	Double	NO	NO
nombre	tipo sala	Text	NO	NO
nombre	estado conservacion	Text	NO	NO
nombre	sala	Text	NO	NO
nombre	estado pista	Text	NO	NO
nombres	monitor	Text	NO	NO
pista	squash	Text	NO	NO
profesion	socio	Text	NO	NO
referencia	aparato	Text	NO	NO
referencia	clase	Text	NO	NO
telefono	socio	Text	NO	NO
tiempo reserva	reserva	Long Integer	NO	NO
ubicacion	sala	Text	NO	NO
ubicacion	squash	Text	NO	NO

Attribute 'apellidos'

Attribute name	apellidos	Entity name	monitor
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Apellidos

Attribute 'codigo'

Attribute name	codigo	Entity name	socio
Data type	Text (20)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Código establecido para el socio

Attribute 'descripcion'

Attribute name	descripcion	Entity name	aparato
Data type	Text (255)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Descripcion y características del aparato

Attribute 'descripcion'

Attribute name	descripcion	Entity name	clase
Data type	Memo		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Descripción de la clase

Attribute 'dia'

Attribute name	dia	Entity name	clase
Data type	Integer		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Default	-1		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Se escoje el dia de la semana a través de una lista

- 1. No se ha asignado el día (defecto)
- 0.- Domingo
- 1.- Lunes
- 2.- Martes
- 3.- Miercoles
- 4.- Jueves
- 5.- Viernes
- 6.- Sábado

Attribute 'direccion'

Attribute name	direccion	Entity name	socio
Data type	Text (255)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'dni'

Attribute name	dni	Entity name	monitor
Data type	Text (20)		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Unique	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

DNI es único

Attribute 'es titulado'

Attribute name	es titulado	Entity name	monitor
Data type	Yes/No		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	Yes/No
Input Mask	
Caption	Tiene Titulación
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Indica si tiene titulación

Attribute 'experiencia profesional'

Attribute name	experiencia profesional	Entity name	monitor
Data type	Memo		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Detalle de la experiencia profesional

Attribute 'fecha'

Attribute name	fecha	Entity name	reserva
Data type	Date/Time		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Fecha de la reserva

Attribute 'hora'

Attribute name	hora	Entity name	reserva
Data type	Date/Time		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Hora de la reserva

Attribute 'hora'

Attribute name	hora	Entity name	clase
Data type	Date/Time		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Hora
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Hora en la que se imparte la clase

Attribute 'id'

Attribute name	id	Entity name	reserva
Role name	squash		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	squash
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Pista de squash reservada

Attribute 'id'

Attribute name	id	Entity name	monitor imparte clase
Role name	monitor		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	monitor
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno del monitor, se podria ubicar por su DNI o Apellidos y Nombres

Attribute 'id'

Attribute name	id	Entity name	squash
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno de la pita de squash

Attribute 'id'

Attribute name	id	Entity name	tipo sala
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	NO		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador del tipo de Sala

Attribute 'id'

Attribute name	id	Entity name	sala
Role name	tipo sala		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	tipo sala
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Tipo de Sala
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Tipo de sala, solo puede pertenecer a un tipo de sala

Attribute 'id'

Attribute name	id	Entity name	monitor imparte clase
Role name	clase		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	clase
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno de la clase, se podria ubicar por su referencia

Attribute 'id'

Attribute name	id	Entity name	reserva
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

No de reserva

Attribute 'id'

Attribute name	id	Entity name	socio clase
Role name	clase		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	clase
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'id'

Attribute name	id	Entity name	sala
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Códigp
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Código de la Sala

Attribute 'id'

Attribute name	id	Entity name	socio
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	NO		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador Interno del Socio

Attribute 'id'

Attribute name	id	Entity name	socio clase
Role name	socio		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	socio
Not null	NO		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'id'

Attribute name	id	Entity name	clase
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno de la clase

Attribute 'id'

Attribute name	id	Entity name	estado conservacion
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Codigo del estado de conservación

Attribute 'id'

Attribute name	id	Entity name	sala aparato
Role name	aparato		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	aparato
Not null	YES		
Unique	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Aparato
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Referencia del Aparato por su Identificador numérico

Attribute 'id'

Attribute name	id	Entity name	squash
Role name	estado		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	estado pista
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Estado de la pista

Determinar cuales son esos posibles estadosos

Attribute 'id'

Attribute name	id	Entity name	sala aparato
Role name	sala		
Data type	Long Integer		
Primary key	YES		
Foreign key	YES	Parent entity	sala
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Sala
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Código de la Sala

Attribute 'id'

Attribute name	id	Entity name	aparato
Role name	estado conservacion		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	estado conservacion
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

El valor por defecto al momento de crearse el registro es 0=> Por determinar

Attribute 'id'

Attribute name	id	Entity name	monitor
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno único

Attribute 'id'

Attribute name	id	Entity name	estado pista
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	NO		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador del estado

Attribute 'id'

Attribute name	id	Entity name	clase
Role name	sala		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	sala
Not null	NO		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Debe Tiene asignada una sala, puedes asignar una sala despues?

Attribute 'id'

Attribute name	id	Entity name	reserva
Role name	socio		
Data type	Long Integer		
Primary key	NO		
Foreign key	YES	Parent entity	socio
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Socio que pide la reserva

Attribute 'id'

Attribute name	id	Entity name	aparato
Data type	Long Integer		
Primary key	YES		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Identificador interno del aparato

Attribute 'metraje'

Attribute name	metraje	Entity name	sala
Data type	Double		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Default	0.0		

User-defined variables

Name	Value
Decimal precision for numeric types	2
Validation text	
Format	Standard
Input Mask	
Caption	Metros Cuadrados
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Metros cuadrados

Attribute 'nombre'

Attribute name	nombre	Entity name	tipo sala
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text, memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text, memo and hyperlink data types)	No
Auto number type	Increment

Notes

Descripción del tipo de Sala

Attribute 'nombre'

Attribute name	nombre	Entity name	estado conservacion
Data type	Text (25)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Denominacion del estado de conservación

Attribute 'nombre'

Attribute name	nombre	Entity name	sala
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	Nombre de la Sala
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Nombre de la Sala

Attribute 'nombre'

Attribute name	nombre	Entity name	estado pista
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'nombres'

Attribute name	nombres	Entity name	monitor
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Nombres

Attribute 'pista'

Attribute name	pista	Entity name	squash
Data type	Text (5)		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Unique	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

No de pista, único

Attribute 'profesion'

Attribute name	profesion	Entity name	socio
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'referencia'

Attribute name	referencia	Entity name	aparato
Data type	Text (20)		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Unique	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Código del aparato su valor debe ser único

Attribute 'referencia'

Attribute name	referencia	Entity name	clase
Data type	Text (20)		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Unique	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Código de referencia de la clase su valor es único

Attribute 'telefono'

Attribute name	telefono	Entity name	socio
Data type	Text (20)		
Primary key	NO		
Foreign key	NO		
Not null	NO		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Attribute 'tiempo reserva'

Attribute name	tiempo reserva	Entity name	reserva
Data type	Long Integer		
Primary key	NO		
Foreign key	NO		
Not null	YES		
Default	0		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Tiempo de reserva en minutos

Determinar cuales son los minimos y maximos

Attribute 'ubicacion'

Attribute name	ubicacion	Entity name	sala
Data type	Text (150)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Ubicación de la Sala

Attribute 'ubicacion'

Attribute name	ubicacion	Entity name	squash
Data type	Text (50)		
Primary key	NO		
Foreign key	NO		
Not null	YES		

User-defined variables

Name	Value
Decimal precision for numeric types	
Validation text	
Format	None
Input Mask	
Caption	
Allow zero length (for text,memo and hyperlink data types)	No
Own format	
Descending primary key	No
Compress unicode (for text,memo and hyperlink data types)	No
Auto number type	Increment

Notes

Ubicación de la pista

Relationship report

Relationship name	Relationship type	Parent entity	Child entity	Card.
R01	Non-identifying	tipo sala	sala	1:N
R02	Non-identifying	estado conservacion	aparato	1:N
R03	Identifying	sala	sala aparato	1:N
R04	Identifying	aparato	sala aparato	1:N
R05	Non-identifying	sala	clase	1:N
R07	Identifying	clase	monitor imparte clase	1:N
R08	Identifying	monitor	monitor imparte clase	1:N
R09	Identifying	clase	socio clase	1:N
R10	Identifying	socio	socio clase	1:N
R11	Non-identifying	estado pista	squash	1:N
R12	Non-identifying	squash	reserva	1:N
R13	Non-identifying	socio	reserva	1:N

Relationship 'R01'

Relationship name	R01		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	tipo sala		
Child entity	sala		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	tipo sala	----

User-defined variables

Name	Value
Join type	FULL

Relationship 'R02'

Relationship name	R02		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	estado conservacion		
Child entity	aparato		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	estado conservacion	----

User-defined variables

Name	Value
Join type	FULL

Notes

Un mismo estado de conservacion puede estar en diferentes aparatos

Relationship 'R03'

Relationship name	R03		
Relationship type	identifying	Cardinality	1:N
Parent entity	sala		
Child entity	sala aparato		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	sala	----

User-defined variables

Name	Value
Join type	FULL

Notes

Una sala puede contener 0 o mas de un aparato

Relationship 'R04'

Relationship name	R04		
Relationship type	identifying	Cardinality	1:N
Parent entity	aparato		
Child entity	sala aparato		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	aparato	----

User-defined variables

Name	Value
Join type	FULL

Relationship 'R05'

Relationship name	R05		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	sala		
Child entity	clase		

Partiality

Parent	optional
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	sala	----

User-defined variables

Name	Value
Join type	FULL

Relationship 'R07'

Relationship name	R07		
Relationship type	identifying	Cardinality	1:N
Parent entity	clase		
Child entity	monitor imparte clase		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	clase	----

User-defined variables

Name	Value
Join type	FULL

Notes

Una clase puede ser impartida por uno o mas monitores

Relationship 'R08'

Relationship name	R08		
Relationship type	identifying	Cardinality	1:N
Parent entity	monitor		
Child entity	monitor imparte clase		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	monitor	----

User-defined variables

Name	Value
Join type	FULL

Notes

Un monitor puede impartir una o mas clases

Relationship 'R09'

Relationship name	R09		
Relationship type	identifying	Cardinality	1:N
Parent entity	clase		
Child entity	socio clase		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	clase	----

User-defined variables

Name	Value
Join type	FULL

Notes

Una clase puede estar registrada para uno o mas socios

Relationship 'R10'

Relationship name	R10		
Relationship type	identifying	Cardinality	1:N
Parent entity	socio		
Child entity	socio clase		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	socio	----

User-defined variables

Name	Value
Join type	FULL

Relationship 'R11'

Relationship name	R11		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	estado pista		
Child entity	squash		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	estado	----

User-defined variables

Name	Value
Join type	FULL

Notes

Un estado pues estar asociado en una o mas pistas de squash

Relationship 'R12'

Relationship name	R12		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	squash		
Child entity	reserva		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	squash	----

User-defined variables

Name	Value
Join type	FULL

Notes

Una pista squash puede ser reservada en diferentes momentos

Relationship 'R13'

Relationship name	R13		
Relationship type	non-identifying	Cardinality	1:N
Parent entity	socio		
Child entity	reserva		

Partiality

Parent	mandatory
Child	mandatory

Referential integrity

	Insert	Update	Delete
Parent	----	CASCADE	RESTRICT
Child	NONE	NONE	----

Keys

Key type	Parent key	Child key	Role name
Primary key	id	socio	----

User-defined variables

Name	Value
Join type	FULL

Notes

Uno socio puede reservar una o mas pistas en diferentes fechas y horas

Key report

Entity name	Key name	Key type
aparato	pk_aparato	Primary key
clase	pk_clase	Primary key
estado conservacion	pk_estado_conservacion	Primary key
estado pista	pk_estado_pista	Primary key
monitor	pk_monitor	Primary key
monitor imparte clase	pk_monitor_imparte_clase	Primary key
reserva	pk_reserva	Primary key
sala	pk_sala	Primary key
sala aparato	pk_sala_aparato	Primary key
socio	pk_socio	Primary key
socio clase	pk_socio_clase	Primary key
squash	pk_squash	Primary key
tipo sala	pk_tipo_sala	Primary key

Primary key 'pk_aparato'

Key name	pk_aparato
Entity name	aparato

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_clase'

Key name	pk_clase
Entity name	clase

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_estado_conservacion'

Key name	pk_estado_conservacion
Entity name	estado conservacion

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_estado_pista'

Key name	pk_estado_pista
Entity name	estado pista

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_monitor'

Key name	pk_monitor
Entity name	monitor

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_monitor_imparte_clase'

Key name	pk_monitor_imparte_clase
Entity name	monitor imparte clase

Attribute	Foreign key	Unique attribute
id	YES	NO
id	YES	NO

Primary key 'pk_reserva'

Key name	pk_reserva
Entity name	reserva

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_sala'

Key name	pk_sala
Entity name	sala

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_sala_aparato'

Key name	pk_sala_aparato
Entity name	sala aparato

Attribute	Foreign key	Unique attribute
id	YES	NO
id	YES	YES

Primary key 'pk_socio'

Key name	pk_socio
Entity name	socio

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_socio_clase'

Key name	pk_socio_clase
Entity name	socio clase

Attribute	Foreign key	Unique attribute
id	YES	NO
id	YES	NO

Primary key 'pk_squash'

Key name	pk_squash
Entity name	squash

Attribute	Foreign key	Unique attribute
id	NO	NO

Primary key 'pk_tipo_sala'

Key name	pk_tipo_sala
Entity name	tipo sala

Attribute	Foreign key	Unique attribute
id	NO	NO

