SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[locations](

[id\_location] [numeric](18, 0) IDENTITY(1,1) NOT NULL,

[name] [nvarchar](100) NOT NULL,

[lat] [float] NULL,

[lon] [float] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[locations] ADD PRIMARY KEY CLUSTERED

(

[id\_location] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, SORT\_IN\_TEMPDB = OFF, IGNORE\_DUP\_KEY = OFF, ONLINE = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[owner\_info](

[id\_owner] [numeric](18, 0) IDENTITY(1,1) NOT NULL,

[name] [nvarchar](100) NOT NULL,

[ap\_paterno] [nvarchar](100) NOT NULL,

[ap\_materno] [nvarchar](100) NULL,

[id\_location] [numeric](18, 0) NOT NULL,

[jerarquia] [numeric](18, 0) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[owner\_info] ADD PRIMARY KEY CLUSTERED

(

[id\_owner] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, SORT\_IN\_TEMPDB = OFF, IGNORE\_DUP\_KEY = OFF, ONLINE = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[sensor\_info](

[id\_sensor] [numeric](18, 0) IDENTITY(1,1) NOT NULL,

[name] [nvarchar](100) NOT NULL,

[id\_owner] [numeric](18, 0) NOT NULL,

[id\_type] [numeric](18, 0) NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[sensor\_info] ADD PRIMARY KEY CLUSTERED

(

[id\_sensor] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, SORT\_IN\_TEMPDB = OFF, IGNORE\_DUP\_KEY = OFF, ONLINE = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[sensor\_records](

[id\_record] [numeric](18, 0) IDENTITY(1,1) NOT NULL,

[id\_sensor] [numeric](18, 0) NOT NULL,

[current\_value] [numeric](18, 0) NOT NULL,

[date\_record] [datetime] NOT NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[sensor\_records] ADD PRIMARY KEY CLUSTERED

(

[id\_record] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, SORT\_IN\_TEMPDB = OFF, IGNORE\_DUP\_KEY = OFF, ONLINE = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[types](

[id\_type] [numeric](18, 0) IDENTITY(1,1) NOT NULL,

[name] [nvarchar](100) NOT NULL,

[min\_value] [numeric](18, 0) NULL,

[max\_value] [numeric](18, 0) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[types] ADD PRIMARY KEY CLUSTERED

(

[id\_type] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, SORT\_IN\_TEMPDB = OFF, IGNORE\_DUP\_KEY = OFF, ONLINE = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_Delete\_Sensor]

-- Add the parameters for the stored procedure here

@id\_sensor as numeric(18,0)

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

--borrar el sensor

DELETE [dbo].[sensor\_info]

FROM [dbo].[sensor\_info]

WHERE

id\_sensor = @id\_sensor

--borrar los registros

DELETE [dbo].[sensor\_records]

FROM [dbo].[sensor\_records]

WHERE

id\_sensor = @id\_sensor

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_Insert\_Sensor]

-- Add the parameters for the stored procedure here

@NAME NVARCHAR(100),

@ID\_OWNER as numeric(18,0),

@ID\_TYPE as numeric(18,0)

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

INSERT INTO [dbo].[sensor\_info]

([NAME]

,[id\_owner]

,[id\_type]

)

VALUES

(@NAME

,@ID\_OWNER

,@ID\_TYPE

)

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_Insert\_SensorRecords]

-- Add the parameters for the stored procedure here

@id\_sensor as numeric(18,0),

@current\_value as numeric(18,0)

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

INSERT INTO [dbo].[sensor\_records]

([id\_sensor]

,[date\_record]

,[current\_value]

)

VALUES

(@id\_sensor

,GETDATE()

,@current\_value

)

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_Select\_Sensor]

-- Add the parameters for the stored procedure here

@id\_sensor as numeric(18,0)

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SELECT SI.id\_sensor, SI.name "SENSOR", T.name "TYPE",

O.name "OWNER", L.name "LOCATION"

FROM sensor\_info SI

INNER JOIN types T ON SI.id\_type = T.id\_type

INNER JOIN owner\_info O ON O.id\_owner = SI.id\_owner

INNER JOIN locations L ON O.id\_location = L.id\_location

where id\_sensor = @id\_sensor

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_SelectALL\_records]

-- Add the parameters for the stored procedure here

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SELECT SR.current\_value,SI.id\_sensor, SI.name "SENSOR", T.name "TYPE",

O.name "OWNER", L.name "LOCATION"

FROM sensor\_records SR

INNER JOIN sensor\_info SI ON SR.id\_sensor = SI.id\_sensor

INNER JOIN types T ON SI.id\_type = T.id\_type

INNER JOIN owner\_info O ON O.id\_owner = SI.id\_owner

INNER JOIN locations L ON O.id\_location = L.id\_location

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_SelectALL\_SensorInfo]

-- Add the parameters for the stored procedure here

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

SELECT SI.id\_sensor, SI.name "SENSOR", T.name "TYPE",

O.name "OWNER", L.name "LOCATION"

FROM sensor\_info SI

INNER JOIN types T ON SI.id\_type = T.id\_type

INNER JOIN owner\_info O ON O.id\_owner = SI.id\_owner

INNER JOIN locations L ON O.id\_location = L.id\_location

END

GO

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE PROCEDURE [dbo].[SP\_Update\_SensorInfo]

-- Add the parameters for the stored procedure here

@id\_sensor as numeric(18,0),

@name as NVARCHAR(100)

AS

BEGIN

-- SET NOCOUNT ON added to prevent extra result sets from

-- interfering with SELECT statements.

SET NOCOUNT ON;

UPDATE sensor\_info

SET

[name] = @name

WHERE

id\_sensor = @id\_sensor

END

GO

---sp\_insert\_sensorrecords 2, 25 --inser records funciona

--sp\_select\_sensor 1 --- datos de un sensor ...

--sp\_selectall\_records

--sp\_selectall\_sensorinfo

--SP\_INSERT\_SENSOR "FOTORESISTENCIA", 1, 1

--SP\_Update\_SensorInfo 2, "Fotoresistencia"

--sp\_delete\_sensor 2