**ASSIST Online Indicator Database**

**Database Model and Definition**

**Final Version**

**June 30, 2017**

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# Document History

| **Version** | **Date** | **Author** | **Description** |
| --- | --- | --- | --- |
| 1.0 | 8/24/2016 | T. Arseneau | Initial version. |
| 2.0 | 9/12/2016 | T. Arseneau | Updated model and added language and administrative division support. |
| 3.0 | 6/30/2017 | T. Arseneau | Final version. |

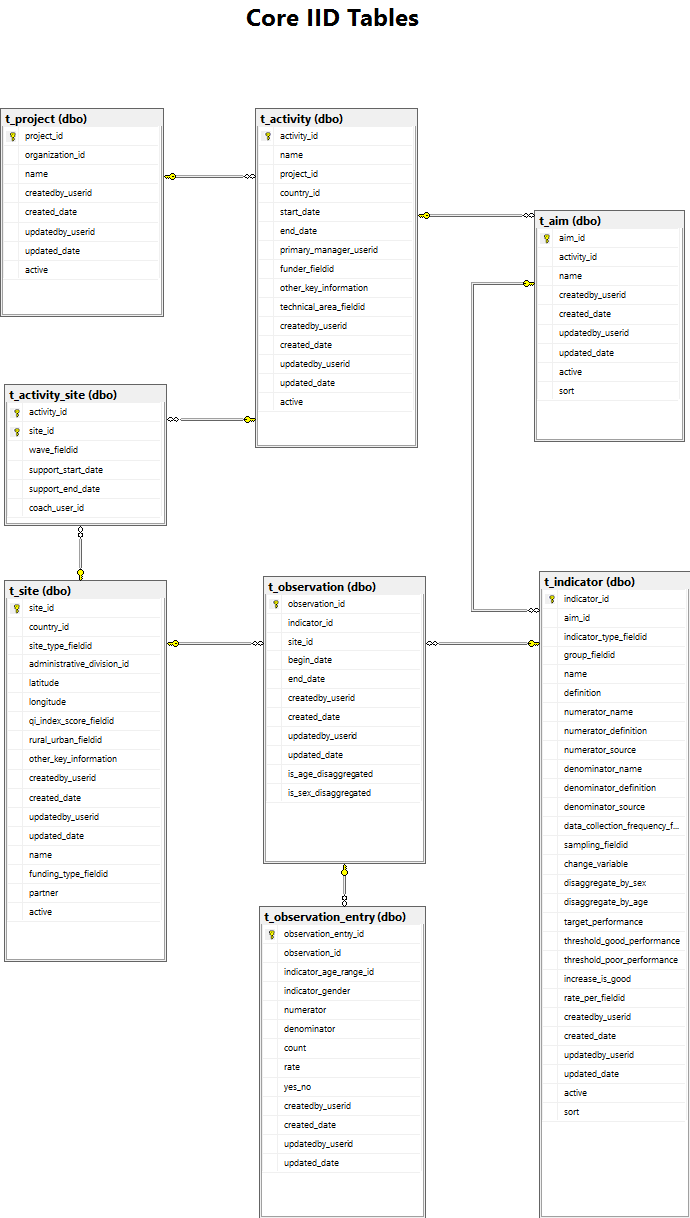
# Domain Model

The following diagram represents logical domain hierarchy necessary to support the ASSIST Online Indicator Database application.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Organization | | |  |  |  |  |  |  |  |  |  |  |
|  | Project | |  |  |  |  |  |  |  |  |  |  |
|  |  | Activity |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Aim |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Indicator | |  |  |  |  |  |  |  |
|  |  |  |  |  | Site |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Observation |  |  |  |  |  |  |
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|  | User | Country | Region | District | DataID |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Organization is the prime hierarchy
2. The DataID domain represents all key-value pairs necessary to support the system. This will normally include any data needed to display “drop down” choices for selection. User Roles and Site Types are two examples.
3. Observation domain data also spawns from date periods which are defined by the Site domain.

# IID CORE TABLES Diagram



# Table Definitions / Bootstrap Script

## Activity (t\_activity)

CREATE TABLE [dbo].[t\_activity](

[activity\_id] [int] IDENTITY(1,1) NOT NULL,

[name] [nchar](10) NOT NULL,

[project\_id] [int] NOT NULL,

[country] [nvarchar](50) NOT NULL,

[start\_date] [datetime] NULL,

[end\_date] [datetime] NULL,

[primary\_manager\_userid] [int] NULL,

[funder\_dataid] [nvarchar](10) NULL,

[other\_key\_informatino] [nvarchar](max) NULL,

[technical\_area\_dataid] [nchar](10) NULL,

CONSTRAINT [PK\_t\_activity] PRIMARY KEY CLUSTERED

(

[activity\_id] ASC

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

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

## Activity Additional Manager (t\_activity\_additional\_manager)

CREATE TABLE [dbo].[t\_activity\_additional\_manager](

[activity\_id] [int] NOT NULL,

[additional\_manager\_userid] [int] NOT NULL,

CONSTRAINT [PK\_t\_activity\_additional\_manager] PRIMARY KEY CLUSTERED

(

[activity\_id] ASC,

[additional\_manager\_userid] ASC

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

) ON [PRIMARY]

## Activity Technical Area Sub Type (t\_activity\_technical\_area\_subtype)

CREATE TABLE [dbo].[t\_activity\_technical\_area\_subtype](

[activity\_id] [int] NOT NULL,

[technical\_area\_subtype\_dataid] [nvarchar](10) NOT NULL,

CONSTRAINT [PK\_t\_activity\_technical\_area\_subtype] PRIMARY KEY CLUSTERED

(

[activity\_id] ASC,

[technical\_area\_subtype\_dataid] ASC

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

) ON [PRIMARY]

## administrative division (t\_administrative\_division)

CREATE TABLE [dbo].[t\_administrative\_division](

[administrative\_division\_id] [int] IDENTITY(1,1) NOT NULL,

[country\_id] [int] NOT NULL,

[parent\_administrative\_division\_id] [int] NULL,

[name] [nvarchar](100) NULL,

[createdby\_userid] [int] NOT NULL,

[created\_date] [date] NOT NULL,

[updatedby\_userid] [int] NULL,

[updated\_date] [date] NULL,

CONSTRAINT [PK\_t\_administrative\_division] PRIMARY KEY CLUSTERED

( [administrative\_division\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_administrative\_division] WITH CHECK ADD CONSTRAINT [FK\_t\_administrative\_division\_country\_id] FOREIGN KEY([country\_id])

REFERENCES [dbo].[t\_country] ([country\_id])

ALTER TABLE [dbo].[t\_administrative\_division] CHECK CONSTRAINT [FK\_t\_administrative\_division\_country\_id]

ALTER TABLE [dbo].[t\_administrative\_division] WITH CHECK ADD CONSTRAINT [FK\_t\_administrative\_division\_createdby\_userid] FOREIGN KEY([createdby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_administrative\_division] CHECK CONSTRAINT [FK\_t\_administrative\_division\_createdby\_userid]

ALTER TABLE [dbo].[t\_administrative\_division] WITH CHECK ADD CONSTRAINT [FK\_t\_administrative\_division\_parent\_administrative\_division\_id] FOREIGN KEY([parent\_administrative\_division\_id])

REFERENCES [dbo].[t\_administrative\_division] ([administrative\_division\_id])

ALTER TABLE [dbo].[t\_administrative\_division] CHECK CONSTRAINT [FK\_t\_administrative\_division\_parent\_administrative\_division\_id]

ALTER TABLE [dbo].[t\_administrative\_division] WITH CHECK ADD CONSTRAINT [FK\_t\_administrative\_division\_updatedby\_userid] FOREIGN KEY([updatedby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_administrative\_division] CHECK CONSTRAINT [FK\_t\_administrative\_division\_updatedby\_userid]

## Aim (t\_aim)

CREATE TABLE [dbo].[t\_aim](

[aim\_id] [int] IDENTITY(1,1) NOT NULL,

[activity\_id] [int] NOT NULL,

[name] [nvarchar](250) NOT NULL,

CONSTRAINT [PK\_t\_aim] PRIMARY KEY CLUSTERED

(

[aim\_id] ASC

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

) ON [PRIMARY]

## country (t\_country)

CREATE TABLE [dbo].[t\_country](

[country\_id] [int] IDENTITY(1,1) NOT NULL,

[name] [nvarchar](100) NULL,

[active] [bit] NULL,

[parent\_site\_type\_fieldid] [varchar](6) NULL,

[first\_level\_administrative\_division] [nvarchar](100) NULL,

[second\_level\_administrative\_division] [nvarchar](100) NULL,

[third\_level\_administrative\_division] [nvarchar](100) NULL,

[fourth\_level\_administrative\_division] [nvarchar](100) NULL,

[createdby\_userid] [int] NOT NULL,

[created\_date] [date] NOT NULL,

[updatedby\_userid] [int] NULL,

[updated\_date] [date] NULL,

CONSTRAINT [PK\_t\_country] PRIMARY KEY CLUSTERED

(

[country\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_country] WITH CHECK ADD CONSTRAINT [FK\_t\_country\_createdby\_userid] FOREIGN KEY([createdby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_country] CHECK CONSTRAINT [FK\_t\_country\_createdby\_userid]

ALTER TABLE [dbo].[t\_country] WITH CHECK ADD CONSTRAINT [FK\_t\_country\_parent\_site\_type\_fieldid] FOREIGN KEY([parent\_site\_type\_fieldid])

REFERENCES [dbo].[t\_fieldid] ([fieldid])

ALTER TABLE [dbo].[t\_country] CHECK CONSTRAINT [FK\_t\_country\_parent\_site\_type\_fieldid]

ALTER TABLE [dbo].[t\_country] WITH CHECK ADD CONSTRAINT [FK\_t\_country\_updatedby\_userid] FOREIGN KEY([updatedby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_country] CHECK CONSTRAINT [FK\_t\_country\_updatedby\_userid]

## DataID (t\_dataid)

CREATE TABLE [dbo].[t\_dataid](

[dataid] [nvarchar](10) NOT NULL,

[parent\_dataid] [nvarchar](10) NULL,

[datavalue] [nvarchar](100) NULL,

CONSTRAINT [PK\_t\_dataid] PRIMARY KEY CLUSTERED

(

[dataid] ASC

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

) ON [PRIMARY]

## Indicator (t\_indicator)

CREATE TABLE [dbo].[t\_indicator](

[indicator\_id] [int] IDENTITY(1,1) NOT NULL,

[aim\_id] [int] NOT NULL,

[type\_dataid] [nvarchar](10) NULL,

[group\_dataid] [nvarchar](10) NULL,

[name] [nvarchar](100) NULL,

[definition] [nvarchar](max) NULL,

[numerator\_name] [nvarchar](100) NULL,

[numerator\_definition] [nvarchar](max) NULL,

[numerator\_source] [nvarchar](100) NULL,

[denominator\_name] [nvarchar](100) NULL,

[denominator\_definition] [nvarchar](max) NULL,

[denominator\_source] [nvarchar](100) NULL,

[data\_collection\_frequency\_dataid] [nvarchar](10) NULL,

[sampling\_dataid] [nvarchar](10) NULL,

[change\_variable] [nvarchar](50) NULL,

[disaggragate\_by\_sex] [bit] NULL,

[disaggragate\_by\_age] [bit] NULL,

[target\_performance] [decimal](18, 9) NULL,

[threshold\_good\_performance] [decimal](18, 9) NULL,

[threshold\_poor\_performance] [decimal](18, 9) NULL,

[increase\_is\_good] [bit] NULL,

[rate\_per\_dataid] [nvarchar](10) NULL,

CONSTRAINT [PK\_t\_indicator] PRIMARY KEY CLUSTERED

(

[indicator\_id] ASC

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

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

## Indicator Age Range (t\_indicator\_age\_range)

CREATE TABLE [dbo].[t\_indicator\_age\_range](

[indicator\_id] [int] NOT NULL,

[age\_range] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_t\_indicator\_age\_range] PRIMARY KEY CLUSTERED

(

[indicator\_id] ASC,

[age\_range] ASC

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

) ON [PRIMARY]

## Indicator Date Period (t\_indicator\_date\_period)

CREATE TABLE [dbo].[t\_indicator\_date\_period](

[indicator\_date\_period\_id] [int] IDENTITY(1,1) NOT NULL,

[indicator\_id] [int] NULL,

[begin\_date] [date] NULL,

[end\_date] [date] NULL,

CONSTRAINT [PK\_t\_indicator\_date\_period] PRIMARY KEY CLUSTERED

(

[indicator\_date\_period\_id] ASC

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

) ON [PRIMARY]

## Observation (t\_observation)

CREATE TABLE [dbo].[t\_observation](

[observation\_id] [int] IDENTITY(1,1) NOT NULL,

[indicator\_id] [int] NOT NULL,

[site\_id] [int] NOT NULL,

[begin\_date] [date] NOT NULL,

[end\_date] [date] NOT NULL,

[createdby\_userid] [int] NULL,

[created\_date] [date] NULL,

[updatedby\_userid] [int] NULL,

[updated\_date] [date] NULL,

[is\_age\_disaggregated] [bit] NULL,

[is\_sex\_disaggregated] [bit] NULL,

CONSTRAINT [PK\_t\_observation] PRIMARY KEY CLUSTERED

(

[observation\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON),

CONSTRAINT [t\_observation\_UC] UNIQUE NONCLUSTERED

(

[indicator\_id] ASC,

[site\_id] ASC,

[begin\_date] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_observation] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_indicator\_id] FOREIGN KEY([indicator\_id])

REFERENCES [dbo].[t\_indicator] ([indicator\_id])

ALTER TABLE [dbo].[t\_observation] CHECK CONSTRAINT [FK\_t\_observation\_indicator\_id]

ALTER TABLE [dbo].[t\_observation] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_site\_id] FOREIGN KEY([site\_id]) REFERENCES [dbo].[t\_site] ([site\_id])

ALTER TABLE [dbo].[t\_observation] CHECK CONSTRAINT [FK\_t\_observation\_site\_id]

## Observation Entry (t\_obervation\_ENTRY)

CREATE TABLE [dbo].[t\_observation\_entry](

[observation\_entry\_id] [int] IDENTITY(1,1) NOT NULL,

[observation\_id] [int] NOT NULL,

[indicator\_age\_range\_id] [int] NULL,

[indicator\_gender] [char](1) NULL,

[numerator] [int] NULL,

[denominator] [int] NULL,

[count] [int] NULL,

[rate] [decimal](18, 9) NULL,

[yes\_no] [bit] NULL,

[createdby\_userid] [int] NOT NULL,

[created\_date] [date] NOT NULL,

[updatedby\_userid] [int] NULL,

[updated\_date] [date] NULL,

CONSTRAINT [PK\_t\_observation\_entry] PRIMARY KEY CLUSTERED

(

[observation\_entry\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON),

CONSTRAINT [t\_observation\_entry\_UC] UNIQUE NONCLUSTERED

(

[observation\_id] ASC,

[indicator\_age\_range\_id] ASC,

[indicator\_gender] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_observation\_entry] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_createdby\_userid] FOREIGN KEY([createdby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_observation\_entry] CHECK CONSTRAINT [FK\_t\_observation\_entry\_createdby\_userid]

ALTER TABLE [dbo].[t\_observation\_entry] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_indicator\_age\_range\_id] FOREIGN KEY([indicator\_age\_range\_id])

REFERENCES [dbo].[t\_indicator\_age\_range] ([indicator\_age\_range\_id])

ALTER TABLE [dbo].[t\_observation\_entry] CHECK CONSTRAINT [FK\_t\_observation\_entry\_indicator\_age\_range\_id]

ALTER TABLE [dbo].[t\_observation\_entry] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_observation\_id] FOREIGN KEY([observation\_id])

REFERENCES [dbo].[t\_observation] ([observation\_id])

ALTER TABLE [dbo].[t\_observation\_entry] CHECK CONSTRAINT [FK\_t\_observation\_entry\_observation\_id]

ALTER TABLE [dbo].[t\_observation\_entry] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_updatedby\_userid] FOREIGN KEY([updatedby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

## Observation Entry change History (t\_obervation\_ENTRY\_change\_history)

CREATE TABLE [dbo].[t\_observation\_entry\_change\_history](

[change\_history\_id] [int] IDENTITY(1,1) NOT NULL,

[observation\_id] [int] NOT NULL,

[observation\_entry\_id] [int] NOT NULL,

[change\_type] [nvarchar](20) NOT NULL,

[change\_date] [datetime] NOT NULL,

[change\_userid] [int] NOT NULL,

[change\_label] [nvarchar](50) NULL,

[change\_description] [nvarchar](50) NULL,

CONSTRAINT [PK\_t\_observation\_entry\_change\_history] PRIMARY KEY CLUSTERED

( [change\_history\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON))

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_change\_user\_id] FOREIGN KEY([change\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] CHECK CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_change\_user\_id]

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_observation\_entry\_id] FOREIGN KEY([observation\_entry\_id])

REFERENCES [dbo].[t\_observation\_entry] ([observation\_entry\_id])

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] CHECK CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_observation\_entry\_id]

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_observation\_id] FOREIGN KEY([observation\_id])

REFERENCES [dbo].[t\_observation] ([observation\_id])

ALTER TABLE [dbo].[t\_observation\_entry\_change\_history] CHECK CONSTRAINT [FK\_t\_observation\_entry\_change\_history\_observation\_id]

## Observation Attachment (t\_obervation\_attachment)

CREATE TABLE [dbo].[t\_observation\_attachment](

[attachment\_id] [int] IDENTITY(1,1) NOT NULL,

[observation\_id] [int] NULL,

[attachment\_file\_name] [nvarchar](250) NULL,

[attachment] [varbinary](max) NULL,

CONSTRAINT [PK\_t\_observation\_attachment] PRIMARY KEY CLUSTERED

(

[attachment\_id] ASC

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

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

## Observation Change (t\_observation\_change)

CREATE TABLE [dbo].[t\_observation\_change](

[change\_id] [int] IDENTITY(1,1) NOT NULL,

[observation\_id] [int] NULL,

[description] [nvarchar](max) NULL,

[start\_date] [date] NULL,

CONSTRAINT [PK\_t\_observation\_change] PRIMARY KEY CLUSTERED

(

[change\_id] ASC

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

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

## Organization (t\_organization)

CREATE TABLE [dbo].[t\_organization](

[organization\_id] [int] NOT NULL,

[name] [nvarchar](250) NOT NULL,

CONSTRAINT [PK\_t\_organization] PRIMARY KEY CLUSTERED

(

[organization\_id] ASC

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

) ON [PRIMARY]

## PAGE TRANSLATION (t\_page\_control\_translation)

CREATE TABLE [dbo].[t\_page\_control\_translation](

[page\_name] [nvarchar](50) NOT NULL,

[control\_name] [nvarchar](100) NOT NULL,

[table\_name] [nvarchar](100) NULL,

[column\_name] [nvarchar](100) NULL,

CONSTRAINT [PK\_t\_page\_control\_translation] PRIMARY KEY CLUSTERED

(

[page\_name] ASC,

[control\_name] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

## Project (t\_project)

CREATE TABLE [dbo].[t\_project](

[project\_id] [int] IDENTITY(1,1) NOT NULL,

[organization\_id] [int] NOT NULL,

[name] [nchar](10) NOT NULL,

CONSTRAINT [PK\_t\_project] PRIMARY KEY CLUSTERED

( [project\_id] ASC

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

) ON [PRIMARY]

## Site (t\_site)

CREATE TABLE [dbo].[t\_site](

[site\_id] [int] IDENTITY(1,1) NOT NULL,

[indicator\_id] [int] NULL,

[country\_id] [int] NULL,

[region\_id] [int] NULL,

[district\_id] [int] NULL,

[subdistrict\_id] [int] NULL,

[site\_type\_id] [int] NULL,

[city] [nvarchar](250) NULL,

[latitude] [nvarchar](250) NULL,

[longitude] [nvarchar](250) NULL,

[qi\_index\_score] [int] NULL,

[rural\_urban] [nvarchar](50) NULL,

[other\_key\_information] [nvarchar](max) NULL,

[phase] [nvarchar](50) NULL,

CONSTRAINT [PK\_t\_site] PRIMARY KEY CLUSTERED

([site\_id] ASC )WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

## User (t\_user)

CREATE TABLE [dbo].[t\_user](

[user\_id] [int] IDENTITY(1,1) NOT NULL,

[email] [nvarchar](250) NOT NULL,

[organization\_id] [int] NULL,

[site\_id] [int] NULL,

[first\_name] [nvarchar](100) NULL,

[last\_name] [nvarchar](100) NULL,

[phone] [nvarchar](100) NULL,

[title] [nvarchar](100) NULL,

[role\_dataid] [nvarchar](10) NULL,

CONSTRAINT [PK\_t\_user] PRIMARY KEY CLUSTERED

(

[user\_id] ASC

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

) ON [PRIMARY]

## Translation (t\_Translation)

CREATE TABLE [dbo].[t\_translation](

[table\_name] [varchar](100) NOT NULL,

[column\_name] [varchar](100) NOT NULL,

[key\_values] [varchar](100) NOT NULL,

[language\_id] [tinyint] NOT NULL,

[value] [nvarchar](max) NOT NULL,

[createdby\_userid] [int] NOT NULL,

[created\_date] [date] NOT NULL,

[updatedby\_userid] [int] NULL,

[updated\_date] [date] NULL,

CONSTRAINT [PK\_t\_translation] PRIMARY KEY CLUSTERED

( [table\_name] ASC,

[column\_name] ASC,

[key\_values] ASC,

[language\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) )

ALTER TABLE [dbo].[t\_translation] WITH CHECK ADD CONSTRAINT [FK\_t\_translation\_createdby\_userid] FOREIGN KEY([createdby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_translation] CHECK CONSTRAINT [FK\_t\_translation\_createdby\_userid]

ALTER TABLE [dbo].[t\_translation] WITH CHECK ADD CONSTRAINT [FK\_t\_translation\_language\_id] FOREIGN KEY([language\_id])

REFERENCES [dbo].[t\_language] ([language\_id])

ALTER TABLE [dbo].[t\_translation] CHECK CONSTRAINT [FK\_t\_translation\_language\_id]

ALTER TABLE [dbo].[t\_translation] WITH CHECK ADD CONSTRAINT [FK\_t\_translation\_updatedby\_userid] FOREIGN KEY([updatedby\_userid])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_translation] CHECK CONSTRAINT [FK\_t\_translation\_updatedby\_userid]

## User Country (t\_user\_country)

CREATE TABLE [dbo].[t\_user\_country](

[user\_id] [int] NOT NULL,

[country\_id] [int] NOT NULL,

CONSTRAINT [PK\_t\_user\_country] PRIMARY KEY CLUSTERED

(

[user\_id] ASC,

[country\_id] ASC

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

) ON [PRIMARY]

## User Region (t\_user\_region)

CREATE TABLE [dbo].[t\_user\_region](

[user\_id] [int] NOT NULL,

[region\_id] [int] NOT NULL,

CONSTRAINT [PK\_t\_user\_region] PRIMARY KEY CLUSTERED

(

[user\_id] ASC,

[region\_id] ASC

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

) ON [PRIMARY]

## User Favorite activity (t\_user\_favorite\_activity)

CREATE TABLE [dbo].[t\_user\_favorite\_activity](

[user\_id] [int] NOT NULL,

[activity\_id] [int] NOT NULL,

CONSTRAINT [PK\_t\_user\_favorite\_activity] PRIMARY KEY CLUSTERED

( [user\_id] ASC,

[activity\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) )

ALTER TABLE [dbo].[t\_user\_favorite\_activity] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_favorite\_activity\_activity\_id] FOREIGN KEY([activity\_id])

REFERENCES [dbo].[t\_activity] ([activity\_id])

ALTER TABLE [dbo].[t\_user\_favorite\_activity] CHECK CONSTRAINT [FK\_t\_user\_favorite\_activity\_activity\_id]

ALTER TABLE [dbo].[t\_user\_favorite\_activity] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_favorite\_activity\_user\_id] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_user\_favorite\_activity] CHECK CONSTRAINT [FK\_t\_user\_favorite\_activity\_user\_id]

## User Favorite chart (t\_user\_favorite\_Chart)

CREATE TABLE [dbo].[t\_user\_favorite\_chart](

[user\_id] [int] NOT NULL,

[chart\_name] [nvarchar](100) NOT NULL,

[chart\_parameters] [varchar](max) NOT NULL,

[updated\_date] [date] NOT NULL,

CONSTRAINT [PK\_t\_user\_favorite\_chart] PRIMARY KEY CLUSTERED

( [user\_id] ASC,

[chart\_name] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_user\_favorite\_chart] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_favorite\_chart\_user\_id] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_user\_favorite\_chart] CHECK CONSTRAINT [FK\_t\_user\_favorite\_chart\_user\_id]

## User Favorite Site (t\_user\_favorite\_site)

CREATE TABLE [dbo].[t\_user\_favorite\_site](

[user\_id] [int] NOT NULL,

[site\_id] [int] NOT NULL,

CONSTRAINT [PK\_t\_user\_favorite\_site] PRIMARY KEY CLUSTERED

( [user\_id] ASC,

[site\_id] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON)

)

ALTER TABLE [dbo].[t\_user\_favorite\_site] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_favorite\_site\_site\_id] FOREIGN KEY([site\_id])

REFERENCES [dbo].[t\_site] ([site\_id])

ALTER TABLE [dbo].[t\_user\_favorite\_site] CHECK CONSTRAINT [FK\_t\_user\_favorite\_site\_site\_id]

ALTER TABLE [dbo].[t\_user\_favorite\_site] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_favorite\_site\_user\_id] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

ALTER TABLE [dbo].[t\_user\_favorite\_site] CHECK CONSTRAINT [FK\_t\_user\_favorite\_site\_user\_id]

]

## User Site (t\_user\_site)

CREATE TABLE [dbo].[t\_user\_site](

[user\_id] [int] NOT NULL,

[site\_id] [int] NOT NULL,

CONSTRAINT [PK\_t\_user\_site] PRIMARY KEY CLUSTERED

(

[user\_id] ASC,

[site\_id] ASC

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

) ON [PRIMARY]

## Foreign Key Contraints

GO

ALTER TABLE [dbo].[t\_activity] WITH CHECK ADD CONSTRAINT [FK\_t\_activity\_t\_project] FOREIGN KEY([project\_id])

REFERENCES [dbo].[t\_project] ([project\_id])

GO

ALTER TABLE [dbo].[t\_activity] CHECK CONSTRAINT [FK\_t\_activity\_t\_project]

GO

ALTER TABLE [dbo].[t\_activity\_additional\_manager] WITH CHECK ADD CONSTRAINT [FK\_t\_activity\_additional\_manager\_t\_activity] FOREIGN KEY([activity\_id])

REFERENCES [dbo].[t\_activity] ([activity\_id])

GO

ALTER TABLE [dbo].[t\_activity\_additional\_manager] CHECK CONSTRAINT [FK\_t\_activity\_additional\_manager\_t\_activity]

GO

ALTER TABLE [dbo].[t\_activity\_technical\_area\_subtype] WITH CHECK ADD CONSTRAINT [FK\_t\_activity\_technical\_area\_subtype\_t\_activity] FOREIGN KEY([activity\_id])

REFERENCES [dbo].[t\_activity] ([activity\_id])

GO

ALTER TABLE [dbo].[t\_activity\_technical\_area\_subtype] CHECK CONSTRAINT [FK\_t\_activity\_technical\_area\_subtype\_t\_activity]

GO

ALTER TABLE [dbo].[t\_aim] WITH CHECK ADD CONSTRAINT [FK\_t\_aim\_t\_activity] FOREIGN KEY([activity\_id])

REFERENCES [dbo].[t\_activity] ([activity\_id])

GO

ALTER TABLE [dbo].[t\_aim] CHECK CONSTRAINT [FK\_t\_aim\_t\_activity]

GO

ALTER TABLE [dbo].[t\_indicator] WITH CHECK ADD CONSTRAINT [FK\_t\_indicator\_t\_aim] FOREIGN KEY([aim\_id])

REFERENCES [dbo].[t\_aim] ([aim\_id])

GO

ALTER TABLE [dbo].[t\_indicator] CHECK CONSTRAINT [FK\_t\_indicator\_t\_aim]

GO

ALTER TABLE [dbo].[t\_indicator\_age\_range] WITH CHECK ADD CONSTRAINT [FK\_t\_indicator\_age\_range\_t\_indicator] FOREIGN KEY([indicator\_id])

REFERENCES [dbo].[t\_indicator] ([indicator\_id])

GO

ALTER TABLE [dbo].[t\_indicator\_age\_range] CHECK CONSTRAINT [FK\_t\_indicator\_age\_range\_t\_indicator]

GO

ALTER TABLE [dbo].[t\_indicator\_date\_period] WITH CHECK ADD CONSTRAINT [FK\_t\_indicator\_date\_period\_t\_indicator] FOREIGN KEY([indicator\_id])

REFERENCES [dbo].[t\_indicator] ([indicator\_id])

GO

ALTER TABLE [dbo].[t\_indicator\_date\_period] CHECK CONSTRAINT [FK\_t\_indicator\_date\_period\_t\_indicator]

GO

ALTER TABLE [dbo].[t\_observation] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_t\_indicator\_date\_period] FOREIGN KEY([indicator\_date\_period\_id])

REFERENCES [dbo].[t\_indicator\_date\_period] ([indicator\_date\_period\_id])

GO

ALTER TABLE [dbo].[t\_observation] CHECK CONSTRAINT [FK\_t\_observation\_t\_indicator\_date\_period]

GO

ALTER TABLE [dbo].[t\_observation\_attachment] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_attachment\_t\_observation] FOREIGN KEY([observation\_id])

REFERENCES [dbo].[t\_observation] ([observation\_id])

GO

ALTER TABLE [dbo].[t\_observation\_attachment] CHECK CONSTRAINT [FK\_t\_observation\_attachment\_t\_observation]

GO

ALTER TABLE [dbo].[t\_observation\_change] WITH CHECK ADD CONSTRAINT [FK\_t\_observation\_change\_t\_observation] FOREIGN KEY([observation\_id])

REFERENCES [dbo].[t\_observation] ([observation\_id])

GO

ALTER TABLE [dbo].[t\_observation\_change] CHECK CONSTRAINT [FK\_t\_observation\_change\_t\_observation]

GO

ALTER TABLE [dbo].[t\_project] WITH CHECK ADD CONSTRAINT [FK\_t\_project\_t\_organization] FOREIGN KEY([organization\_id])

REFERENCES [dbo].[t\_organization] ([organization\_id])

GO

ALTER TABLE [dbo].[t\_project] CHECK CONSTRAINT [FK\_t\_project\_t\_organization]

GO

ALTER TABLE [dbo].[t\_site] WITH CHECK ADD CONSTRAINT [FK\_t\_site\_t\_indicator] FOREIGN KEY([indicator\_id])

REFERENCES [dbo].[t\_indicator] ([indicator\_id])

GO

ALTER TABLE [dbo].[t\_site] CHECK CONSTRAINT [FK\_t\_site\_t\_indicator]

GO

ALTER TABLE [dbo].[t\_user] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_t\_organization] FOREIGN KEY([organization\_id])

REFERENCES [dbo].[t\_organization] ([organization\_id])

GO

ALTER TABLE [dbo].[t\_user] CHECK CONSTRAINT [FK\_t\_user\_t\_organization]

GO

ALTER TABLE [dbo].[t\_user\_country] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_country\_t\_user] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

GO

ALTER TABLE [dbo].[t\_user\_country] CHECK CONSTRAINT [FK\_t\_user\_country\_t\_user]

GO

ALTER TABLE [dbo].[t\_user\_region] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_region\_t\_user] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

GO

ALTER TABLE [dbo].[t\_user\_region] CHECK CONSTRAINT [FK\_t\_user\_region\_t\_user]

GO

ALTER TABLE [dbo].[t\_user\_site] WITH CHECK ADD CONSTRAINT [FK\_t\_user\_site\_t\_user] FOREIGN KEY([user\_id])

REFERENCES [dbo].[t\_user] ([user\_id])

GO

ALTER TABLE [dbo].[t\_user\_site] CHECK CONSTRAINT [FK\_t\_user\_site\_t\_user]

GO