# Kineo Analytics Standard Dashboard Data Model

This document describes the data model for the standard Kineo Analytics dashboard in TKE.

**Dashboard Name:** Kineo Analytics Standard Dashboard 1.0

**Data Model Name:** Kineo Analytics Standard Data Model

## Kineo Analytics Standard Data Model

The Standard Data Model (Elasticube) is included in each Sisense instance and must be duplicated and modified for every client. Details of this process are covered in the Kineo Analytics Implementation Guide.

The name of all tables and columns must match the following convention.

### TKE Export Tables

Each export file has been created as a table in the data model.

* analytics\_course\_completions.csv
* analytics\_prog\_completions.csv
* analytics\_cert\_completions.csv
* analytics\_users.csv
* analytics\_organisations.csv
* analytics\_positions.csv
* analytics\_prog\_overview.csv
* analytics\_cert\_overview.csv
* analytics\_scorm.csv
* analytics\_seminar\_attendance.csv

These tables are not queried directly in the dashboards. Instead, they act as the source tables for the Fact and Dimension tables that represent the data model.

#### analytics\_course\_completions.csv

Contains all course completion data on a per-user basis.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Value** | **Description** |
| User ID | Core | ID number | Database ID number of the user |
| Course ID | Core | ID number | Database Course ID |
| Course Name | Core | Name string | Name of the course |
| Course Category | Core | Category string | Category of the course |
| Time enrolled | Custom | Datetime | Datetime of the course enrolment |
| Time started | Custom | Datetime | Datetime when the learner started |
| Completion Due Date | Custom | Datetime | Course due date |
| Time completed | Custom | Datetime | Datetime of the course completion |
| Completion Status | Core | Status string | Learner course completion status |
| Include in dashboard | Custom | Boolean | Includes the course in all dashboard calculations |

#### analytics\_prog\_completions.csv

Contains all program completion data on a per-user basis.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| User ID | Core | ID number | Database ID number of the user |
| Program ID | Core | ID number | Database Program ID |
| Program Name | Core | Name string | Name of the program |
| Category | Core | Category string | Category of the program |
| Time assigned | Custom | Datetime | Datetime of the learner’s program assignment |
| Time started | Custom | Datetime | Datetime when the learner started |
| Time completed | Custom | Datetime | Datetime of the program completion |
| Time due | Custom | Datetime | Datetime of the program due date |
| Status | Core | Status string | Learner program completion status |
| Include in dashboard | Custom | Boolean | Includes the program in all dashboard calculations |

#### analytics\_cert\_completions.csv

Contains all certification completion data on a per-user basis.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| User ID | Core | ID number | Database ID number of the user |
| Certification ID | Core | ID number | Database Certification ID |
| Certification Name | Core | Name string | Name of the Certification |
| Course Category | Core | Category string | Category of the Certification |
| Status | Core | Status string | Learner certification completion status |
| Time expires | Custom | Datetime | Datetime when the certification is due |
| Time completed | Custom | Datetime | Datetime of the certification completion |
| Time assigned | Custom | Datetime | Datetime of the learner’s certification assignment |
| Time started | Custom | Datetime | Datetime when the learner started |
| Include in dashboard | Custom | Boolean | Includes the certification in all dashboard calculations |

#### analytics\_users.csv

Contains user data including details of the user’s first job assignment.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| User ID | Core | ID Number | Database ID number of the user |
| User’s Fullname | Core | Name string | Full name of the user |
| User First Name | Core | Name string | First name of the user |
| User Last Name | Core | Name string | Last name of the user |
| User’s Country | Core | Country string | Country of the user |
| User’s City | Core | City string | City of the user |
| User Status | Core | Status string | Status of the user, e.g. Active, Suspended |
| Assignment ID | Core | ID Number | ID number of the user’s job assignment |
| Assignment Name | Core | Name string | Name of the user’s job assignment |
| Organisation ID | Core | ID Number | ID number of the user’s organisation |
| Organisation Name | Core | Name string | Name of the user’s organisation |
| Position ID | Core | ID Number | ID number of the user’s position |
| Position Name | Core | Name string | Name of the user’s position |
| Manager ID | Core | ID Number | ID number of the user’s manager |
| Manager Name | Core | Name string | Name of the user’s manager |
| Appraiser ID | Core | ID Number | ID number of the user’s appraiser |
| Appraiser Name | Core | Name string | Name of the user’s appraiser |

#### analytics\_organisations.csv

Contains details of all organisations in the system.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| Organisation ID | Core | ID number | ID number of the organisation |
| Name | Core | Name string | Name of the organisation |
| Parent ID number | Core | ID number | ID number of the organisation’s parent organisation |
| Framework | Core | Name string | Name of the organisation framework |
| Organisation Path | Core | Pipe-delimited ID numbers | List of ID numbers of the organisations in the organisation’s path to the top of the hierarchy |
| Depth Level | Core | Number string | Number describing the organisation’s depth level within the hierarchy |

#### analytics\_positions.csv

Contains details of all positions in the system.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| Position ID | Core | ID number | ID number of the position |
| Position Name | Core | Name string | Name of the position |
| Position Parent ID | Core | ID number | ID number of the parent position |
| Framework Name | Core | Name string | Name of the position framework |
| Position Path | Core | Pipe-delimited ID numbers | List of ID numbers of the positions in the position’s path to the top of the hierarchy |
| Position Depth Level | Core | Number string | Numeric value representing the depth level of the position in the hierarchy |

#### analytics\_prog\_overview.csv

Contains details of program assignments – user progress against courses in a given program. Records may exist in analytics\_program\_completions.csv that have no corresponding record in the Overview export as the Learner is no longer assigned to the program.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| Program ID | Core | ID number | Database Program ID |
| Program Name | Core | Name string | Program name |
| Due Date | Custom | Datetime | Datetime of the program due date |
| User ID | Core | ID number | Database ID number of the user |
| Course ID | Core | ID number | Database Course ID |

#### analytics\_cert\_overview.csv

Contains details of certification assignments – user progress against courses in a given certification. Records may exist in analytics\_certification\_completions.csv that have no corresponding record in the Overview export as the Learner is no longer assigned to the certification.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| Certification ID | Core | ID number | Database Certification ID |
| Certification Name | Core | Name string | Certification name |
| Due Date | Custom | Datetime | Datetime of the Certification due date |
| User ID | Core | ID number | Database ID number of the user |
| Course ID | Core | ID number | Database Course ID |

#### analytics\_scorm.csv

Contains details of Scorm completions on a per-user basis.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| User ID | Core | ID number | Database User ID |
| Course ID | Core | ID number | Database Course ID |
| Course Name | Core | Name string | Course name |
| SCORM Title | Core | Name string | SCORM title |
| SCO Start Date | Core | Datetime | Start time of the first SCO attempt |
| SCO Total Time (milliseconds) | Custom | Number | Total time spent in the SCO in milliseconds |
| SCO Status | Core | Status string | Status of the SCO:   * Passed * Completed * Not Attempted * Browsed * Incomplete * Failed |

#### analytics\_seminar\_attendance.csv

Contains details of seminar sessions and attendance records on a per-user basis.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Type** | **Format** | **Description** |
| User ID | Core | ID number | Database User ID |
| Course ID | Core | ID number | Database Course ID |
| Seminar Name | Core | Name string | The name of the seminar |
| Event ID | Core | ID number | Database ID of the event |
| Session ID | Core | ID number | Database ID of the session |
| Session attendance | Core | Status string | Attendance status of the user |
| Session Start Date/Time | Core | Datetime + timezone | Session start date/time |
| Session Finish Date/Time | Core | Datetime + timezone | Session finish date/time |
| Session Duration | Custom | Number | Duration of the session in minutes |

### Sisense Custom Tables

The standard data model is made up of a series of custom tables, derived from the TKE export source tables. Each custom table is created by SQL written directly in the table. This can be viewed by selecting the table, either in the left-hand menu or by selecting the table node in the model visualisation.

Here, the 3-dot menu has been selected for the Dim\_User table – select Edit & Preview to view the queries and preview the resulting table data.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Sisense documentation on using the Model Editor is available at <https://docs.sisense.com/main/SisenseLinux/using-the-model-editor-ec.htm?tocpath=Modeling%20Data%7CManaging%20ElastiCubes%7C_____3>

#### Fact Tables

Fact tables contain measures and are used to store transactional data that can be aggregated. Fact tables are never used for querying the data in the dashboards.

#### Dim Tables

These tables have been created to provide dimensional (dim) views of the fact data in the TKE export tables. Dim tables are used to store descriptive information about the transactions. This data is used for filtering or segmenting the data and are always used for querying the data in the dashboards.

#### DimDates

The DimDates table has been imported from [Sisense documentation](https://community.sisense.com/t5/knowledge/date-dimension-file/ta-p/707) to act as a reference for all time-based queries in the dashboard.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Format** | **Description** |
| DateNum | Number string | Numeric representation of the date |
| Date | Datetime | The date |
| YearMonthNum | Number string | Numeric representation of the year/month |
| Calendar\_Quarter | Text string | The calendar quarter of the date |
| MonthNum | Number string | Numeric representation of the month |
| MonthName | Text string | The name of the month |
| MonthShortName | Text string | The shortname of the month |
| WeekNum | Number string | Numeric representation of the week |
| DayNumOfYear | Number string | The day number of the year |
| DayNumOfMonth | Number string | The day number of the month |
| DayNumOfWeek | Number string | The day number of the week |
| DayName | Text string | The name of the day |
| DayShortName | Text string | The shortname of the day |
| Quarter | Number string | The quarter (1-4) |
| YearQuarterNum | Number string | Numeric representation of the year/quarter |
| DayNumOfQuarter | Number string | The day number of the quarter |