# Data Dictionary

The following are the columns used in the Reports created and would be extended in future development.

|  |  |  |  |
| --- | --- | --- | --- |
| Table | Field | Type | Description |
| Fact\_activity | Most Used App (Measure) | VarChar | Returns a ranked list of the App with the most recorded signals from highest to lowest |
| Fact\_activity | AppName | VarChar | The name of the app where a signal of interaction was recorded |
| Fact\_activity (PK) | SignalID | VarChar | The unique id of the signal recorded |
| Fact\_activity | SignalType | VarChar | The type of interaction that was recorded in the signal |
| Dim\_course (PK) | Course\_id | VarChar | The unique course id |
| Dim\_aaduser(PK) | ObjectID\_pseudonym | VarChar | The unique id for each student object |
| Dim\_organization (PK) | Id | VarChar | Unique id for academic school |
| Dim\_organization | Name | VarChar | The academic school name |
| Dim\_lesson | Name | VarChar | The lesson title |
| Dim\_lesson (PK) | id | VarChar | Unique id for each lesson within a course |
| Dim\_lesson\_grades | grade | Int | The student grade recorded for a lesson |
| Dim\_lesson\_grades | Grade class | VarChar | The grade classification for students grades |
| Dim\_lesson\_grades | Count of Grade Class for 1st (Measure) | Int | The total number of 1sts recorded for a lesson |
| Dim\_lesson\_grades (PK) | Id | VarChar | The id associated with each students grade for a lesson |

# Next Steps

Following the initial investigation of the Microsoft Insights framework and the sample data collected combined with Moodle sample data there are some identified next steps:

* Conduct detailed requirement gathering of the insights Higher Education Organisations are most interested in.
* Further catalogue the data collected in both frameworks.
* Carry-out further transformations in Synapse to get meaningful insights from the data collected such as student demographics related to grade attainment.
* Look to add more modules from the OEA Module Catalogue further enriching the data.
* Build out the Power BI reports further to display meaningful insights that can provide Education senior stakeholders with valuable information to drive a data-driven decision making process.

# Feedback

* Initially difficulty setting-up an OEA module due to the large majority of the Module frameworks being out of date
* Data is not clearly document so a lot of time spent on discovery and having to manually match fields where the naming conventions are not consistent in Foreign Keys
* Without data documentation it is difficult to fully understand the meaning of some fields and most appropriate assumptions had to be made
* Within the Moodle module the data tables given are not extensive enough and the data model in the documentation cannot be matched as tables are missing
* The OEA sample data also does not match the 600 students, in the sample there are only 599 student records